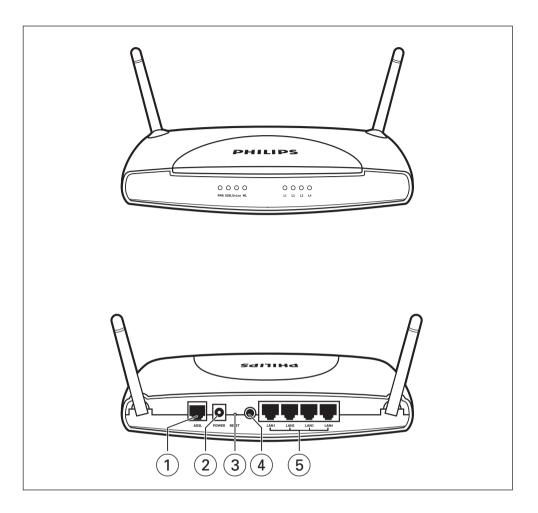
CPWBS154

Instructions for use



PHILIPS



1 ADSL Port

WAN port (RJ-11). Connect your ADSL line to this port.

2 Power Inlet

Connect the included power adapter to this inlet. **Warning:** Using the wrong type of power adapter may damage the ADSL Wireless Base Station.

3 Reset Button

Use this button to reset the power and restore the default factory settings. To reset without losing configuration settings, see 'Reset' on page 54-55.

4 Power button

Press this button to turn on/turn off the ADSL Wireless Base Station.

5 LAN Ports

10/100 Ethernet ports (RJ-45). Connect devices on your local area network to these ports (i.e., a PC, hub, or switch).

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Introduction

CPWBS154

Congratulations on your purchase of the Philips ADSL Wireless Base Station, hereafter referred to as the 'ADSL Wireless Base Station'. We are proud to provide you with a powerful yet simple communication device for connecting your local area network (LAN) to the Internet. For those who want to surf the Internet in the most secure way, this router provides a convenient and powerful solution.

About the ADSL Wireless Base Station

The ADSL Wireless Base Station provides Internet access to multiple users by sharing a single-user account. Support is provided for both wired and wireless devices. New technology provides wireless security via Wired Equivalent Privacy (WEP) encryption and MAC address filtering. It is simple to configure and can be up and running in minutes.

Features and Benefits

- Internet connection to an ADSL line via an RJ-11 ADSL port
- Local network connection via four 10/100 Mbps Ethernet ports
- On-board IEEE 802.11g wireless network adapter
- DHCP for dynamic IP configuration, and DNS for domain name mapping
- Firewall with Stateful Packet Inspection, client privileges, intrusion detection, and NAT
- NAT also enables multi-user Internet access via a single user account, and virtual server functionality (providing protected access to Internet services such as web, FTP, email, and Telnet)
- VPN pass-through (IPSec-ESP Tunnel mode, L2TP, PPTP)
- User-definable application sensing tunnel supports applications requiring multiple connections
- \bullet Easy setup through a web browser on any operating system that supports TCP/IP
- · Compatible with all popular Internet applications

Applications

Many advanced networking features are provided by the ADSL Wireless Base Station:

Wireless and Wired LAN

The ADSL Wireless Base Station provides connectivity to 10/100 Mbps devices, and wireless IEEE 802.11g compatible devices, making it easy to create a network in small offices or homes.

Internet Access

This device supports Internet access through an ADSL connection. Since many DSL providers use PPPoE or PPPoA to establish communications with end users, the ADSL Wireless Base Station includes built-in clients for these protocols, eliminating the need to install these services on your computer.

ENGLISH 5

Shared IP Address

The ADSL Wireless Base Station provides Internet access for up to 253 users via a single shared IP address. Using only one ISP account, multiple users on your network can browse the web at the same time.

Virtual Server

If you have a fixed IP address, you can set the ADSL Wireless Base Station to act as a virtual host for network address translation. Remote users access various services at your site using a constant IP address. Then, depending on the requested service (or port number), the ADSL Wireless Base Station can route the request to the appropriate server (at another internal IP address). This secures your network from direct attack by hackers, and provides more flexible management by allowing you to change internal IP addresses without affecting outside access to your network.

DMZ Host Support

Allows a networked computer to be fully exposed to the Internet. This function is used when NAT and firewall security prevent an Internet application from functioning correctly.

Security

The ADSL Wireless Base Station supports security features that deny Internet access to specified users, or filter all requests for specific services that the administrator does not want to serve. The ADSL Wireless Base Station's firewall also blocks common hacker attacks, including IP Spoofing, Land Attack, Ping of Death, IP with zero length, Smurf Attack, UDP port loopback, Snork Attack, TCP null scan, and TCP SYN flooding. WEP (Wired Equivalent Privacy), SSID, and MAC filtering provide security over the wireless network.

Important information

- Please install and connect the product in the order as described in the chapter 'Before You Start Guide' only. This assures best installation results with the least technical hassles.
- Please read this guide carefully before using the ADSL Wireless Base Station; and keep it for future reference.
- During set-up and installation, it may be helpful to have the instructions for your PC and other network components at hand.



Safety Precautions

- Do not expose the product to excessive moisture, rain, sand or heat sources.
- The product should not be exposed to dripping or splashing. No object filled with liquids, such as vases, should be placed on the product.
- Keep the product away from domestic heating equipment and direct sunlight.
- Allow a sufficient amount of free space all around the product for adequate ventilation.
- Do not open this product. Contact your retailer if you experience technical difficulties.

Environmental information

All redundant packing material has been omitted. We have done our utmost to make the packaging easily separable into three mono materials: cardboard (box), polystyrene foam (buffer) and polyethylene (bags, protective foam sheet). Your set consists of materials that can be recycled if disassembled by a specialised company. Please observe the local regulations regarding the disposal of packing materials, exhausted batteries and old equipment.

Packaging contents

Please check whether all of the following items are present in the box of the Wireless Base Station. These are provided to help you set up and use your Wireless Base Station. Contact your retailer if any items are missing.

- Philips ADSL Wireless Base Station
- Power adapter
- One Category 5 Ethernet cable (RJ-45)
- Telephone patch cable (RJ-11)
- 'Before You Start' Card
- CD with manual

Disclaimer

This product is provided by 'Philips' 'as is'' and without any express or implied warranty of any kind of warranties, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose are disclaimed.

In no event shall Philips be liable for any direct, indirect, incidental, special, exemplary, or consequential damages (including, but not limited to, procurement of substitute goods or services; loss of information, data, or profits; or business interruption) howsoever caused and on any theory of liability, whether in contract, strict liability, or tort (including negligence or otherwise) arising in any way out of the use of inability to use this product, even if advised of the possibility of such damages.

Philips further does not warrant the accuracy or completeness of the information, text, graphics, illustrative examples links or other items can be deviated of the product.

Installation

System Requirements

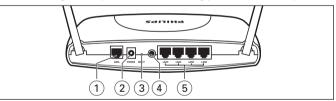
- ADSL line installed by your Internet Service Provider.
- A computer using a fixed IP address or dynamic IP address assigned via DHCP, as well as a gateway server address and DNS server address from your service provider.
- A computer equipped with a 10/100 Mbps network adapter, a USB-to-Ethernet converter or an IEEE 802.11g wireless network adapter.
- TCP/IP network protocols installed on each PC that will access the Internet.
- A Java-enabled web browser, such as Microsoft Internet Explorer 5.5 or above <u>or</u> Netscape 4.7 or above, installed on one PC at your site for configuring the ADSL Wireless Base Station.

Hardware Description

The ADSL Wireless Base Station contains an integrated ADSL modem and connects to the Internet or to a remote site using its RJ-11 WAN port. It can be connected directly to your PC or to a local area network using any of the four 10/100 Ethernet LAN ports.

Data passing between devices connected to your local area network can run at up to 100 Mbps over the 10/100 Ethernet ports and 54 Mbps over the built-in wireless network adapter.

The ADSL Wireless Base Station includes an LED display on the front panel for system power and port indications that simplifies installation and network troubleshooting. It also provides the following ports on the rear panel:



1 ADSL Port

WAN port (RJ-11). Connect your ADSL line to this port.

2 Power Inlet

Connect the included power adapter to this inlet. **Warning:** Using the wrong type of power adapter may damage the ADSL Wireless Base Station.

3 Reset Button

Use this button to reset the power and restore the default factory settings. To reset without losing configuration settings, see 'Reset' on page 54-55.

4 Power button

Press this button to turn on/turn off the ADSL Wireless Base Station.

5 LAN Ports

10/100 Ethernet ports (RJ-45). Connect devices on your local area network to these ports (i.e., a PC, hub, or switch).

LED Indicators

The power and port LED indicators on the front panel are illustrated by the following figure and table.



LED	Status	Description
PWR (Power)	On	Power on, normal operation.
	Off	Power off or failure.
xDSL (DSL sync)	On	ADSL loop is brought UP.
	Blinking	Start up.
	Off	ADSL loop is down.
Online	On	Link is up.
	Blinking	Send/Receive data.
	Off	No data transfering.
WL (Wireless)	On	Link is up.
	Blinking	Send/Receive data.
	Off	No data transfering.
LAN 1-4	On	Ethernet Connection is established.
	Blinking	Send/Receive data.
	Off	Without Link.

ISP Settings

Please collect the following information from your ISP before setting up the ADSL Wireless Base Station:

- ISP account user name and password
- Protocol, encapsulation and VPI/VCI circuit numbers
- DNS server address
- IP address, subnet mask and default gateway (for fixed IP users only)

Connect the System

The ADSL Wireless Base Station can be positioned at any convenient location in your office or home. No special wiring or cooling requirements are needed. You should, however, comply with the following guidelines:

- Keep the ADSL Wireless Base Station away from any heating devices.
- Do not place the ADSL Wireless Base Station in a dusty or wet environment.

You should also remember to turn off the power, remove the power cord from the outlet, and keep your hands dry when you install the ADSL Wireless Base Station.

Connect the ADSL Line

Connect the supplied RJ-11 cable from the ADSL Microfilter/Splitter to the ADSL port on your ADSL Wireless Base Station. When inserting an ADSL RJ-11 plug, be sure the tab on the plug clicks into position to ensure that it is properly seated.

Phone Line Configuration

Installing a Full-Rate Connection

If you are using a full-rate (G.dmt) connection, your service provider will attach the outside ADSL line to a data/voice splitter. In this case you can connect your phones and computer directly to the splitter as shown below:

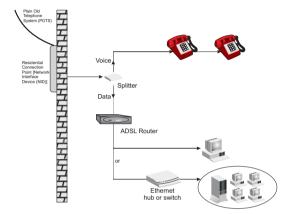


Figure 2-3. Installing with a Splitter

Installing a Splitterless Connection

If you are using a splitterless (G.lite) connection, then your service provider will attach the outside ADSL line directly to your phone system. In this case you can connect your phones and computer directly to the incoming ADSL line, but you will have to add low-pass filters to your phones as shown below:

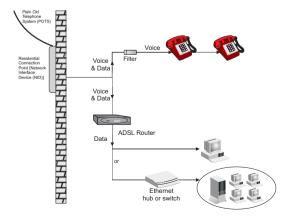


Figure 2-4. Installing without a Splitter

Attach to Your Network Using Ethernet Cabling

The four LAN ports on the ADSL Wireless Base Station auto-negotiate the connection speed to 10 Mbps Ethernet or 100 Mbps Fast Ethernet, as well as the transmission mode to half duplex or full duplex.

Use RJ-45 cables to connect any of the four LAN ports on the ADSL Wireless Base Station to an Ethernet adapter on your PC. Otherwise, cascade any of the LAN ports on the ADSL Wireless Base Station to an Ethernet hub or switch, and then connect your PC or other network equipment to the hub or switch. When inserting an RJ-45 connector, be sure the tab on the connector clicks into position to ensure that it is properly seated.

Warning: Do not plug a phone jack connector into an RJ-45 port. This may damage the ADSL Wireless Base Station.

Notes:

- Use 100-ohm shielded or unshielded twisted-pair cable with RJ-45 connectors for all 10/100 ethernet ports. Use Category 3, 4, or 5 for connections that operate at 10 Mbps, and Category 5 for connections that operate at 100 Mbps.
- Make sure each twisted-pair cable length does not exceed 100 meters (328 feet).

Connect the Power Adapter

Plug the power adapter into the power socket on the rear of the ADSL Wireless Base Station, and the other end into a power outlet.

Check the power indicator on the front panel is lit. If the power indicator is not lit, refer to 'Troubleshooting' on page 67-68.

In case of a power input failure, the ADSL Wireless Base Station will automatically restart and begin to operate once the input power is restored.

Configuring Client PC

See

After completing hardware setup by connecting all your network devices, you need to configure your computer to connect to the ADSL Wireless Base Station.

'Windows 98/Me' on page 11-13 'Windows NT 4.0' on page 15-17 'Windows 2000' on page 19 'Windows XP' on page 21

or 'Configuring Your Macintosh Computer' on page 22-23 depending on your operating system.

TCP/IP Configuration

To access the Internet through the ADSL Wireless Base Station, you must configure the network settings of the computers on your LAN to use the same IP subnet as the ADSL Wireless Base Station. The default IP settings for the ADSL Wireless Base Station are:

IP Address	192.168.1.1
Subnet Mask	255.255.255.0
DHCP function	Enable
DHCP IP Pool Range	192.168.1.2 to 192.168.1.254

Note: These settings can be changed to fit your network requirements, but you must first configure at least one computer to access the ADSL Wireless Base Station's web configuration interface in order to make the required changes. (See 'Configuring the ADSL Wireless Base Station' on page 25 for instruction on configuring the ADSL Wireless Base Station.)

Windows 98/Me

You may find that the instructions in this section do not exactly match your version of Windows. This is because these steps and screen shots were created from Windows 98. Windows Millennium Edition is similar, but not identical, to Windows 98.

1 On the Windows desktop, click Start/Settings/Control Panel.



2 In Control Panel, double-click the Network icon.



3 In the Network window, under the Configuration tab, double-click the TCP/IP item listed for your network card.

Network ?	х
Configuration Identification Access Control	
The following network components are installed:	
Client for Microsoft Networks	
Microsoft Family Logon	
🗒 Dial-Up Adapter	
SMC EZ Card 10/100 (SMC1211TX)	
TCP/IP -> Dial-Up Adapter	
¥T TCP/IP → SMC EZ Card 10/100 (SMC1211TX)	
Add	

4 In the TCP/IP window, select the IP Address tab. If 'Obtain an IP address automatically' is already selected, your computer is already configured for DHCP. If not, select this option.

TCP/IP Properties		? ×
Bindings	Advanced	NetBIOS
DNS Configuration	Gateway WINS Conf	iguration IP Address
If your network doe your network admir the space below.	be automatically assigne is not automatically assig istrator for an address, a	n IP addresses, ask
Obtain an IP	address automatically	
-C Specify an IP	address:	
[P Address:		
S <u>u</u> bnet Mas	«	
	10	Cancel

5 Windows may need your Windows 98/Me CD to copy some files. After it finishes copying, it will prompt you to restart your system. Click Yes and your computer will restart.

stem a	Gettings Change 🛛 📃
?)	You must restart your computer before the new settings will take effect.
1	Do you want to restart your computer now?
	Yes No

TCP/IP Configuration Setting

Primary DNS Server	
Secondary DNS Server	
Default Gateway	
Host Name	

Disable HTTP Proxy

You need to verify that the 'HTTP Proxy' feature of your web browser is disabled. This is so that your browser can view the ADSL Wireless Base Station's HTML configuration pages. The following steps are for Internet Explorer.

Internet Explorer

- 1 Open Internet Explorer.
- 2 Click the Stop 💿 button, then click Tools/Internet Options.

<u>File</u>	dit	⊻iew	Favori	tes	Tools	<u>H</u> elp		
Back Forward			<u>S</u> yn	Land News chronize dows <u>U</u> pdate	۲	9		
Address 💰 Links 💩 Best of the Web 💩 (N Messenger Service w <u>B</u> elated Links		s	

3 In the Internet Options window, click the Connections tab. Next, click the LAN Settings... button.

nternet Options	×
General Security Content Connections Programs Advanced	
Use the Internet Connection Wizard to Setup	
Dial-up settings	
A <u>d</u> d	
Bemove	
<u>B</u> ettings	
Never dials connection Dial whenever a network connection is not present Always dialing default agrineation	
Current default: None Sgt Default	
Eerform system security check, before dialing	
Local Area Network (LAN) settings	
OK Cancel Apply]

- 4 Clear all the check boxes.
- 5 Click OK, and then click OK again to close the Internet Options window.

	of manual settings, disable automatic configuration.
	Automatically detect settings Use automatic configuration script
	Address
10)	y server
	Use a pro <u>x</u> y server
	Address: Port: Advanged.
	Bypass proxy server for local addresses

Obtain IP Settings from Your ADSL Wireless Base Station

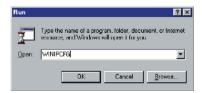
Now that you have configured your computer to connect to your ADSL Wireless Base Station, it needs to obtain new network settings. By releasing old DHCP IP settings and renewing them with settings from your ADSL Wireless Base Station, you can also verify that you have configured your computer correctly.

1 On the Windows desktop, click Start/Run...



2 Type 'WINIPCFG' and click OK.

It may take a second or two for the IP Configuration window to appear.



3 In the IP Configuration window, select your network card from the dropdown menu. Click Release and then click Renew. Verify that your IP address is now 192.168.1.xxx, your Subnet Mask is 255.255.255.0 and your Default Gateway is 192.168.1.1. These values confirm that your ADSL Wireless Base Station is functioning. Click OK to close the IP Configuration window.

IP Configuration	×
Ethernet Adapter Information	SMC EtherPower II 10/100 Netw
Adapter Address	00-E0-29-75-35-9E
IP Address	192.168.1.161
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.1
ОК	Release
Relegse All	Rene <u>w</u> All <u>More Info</u> >>

Windows NT 4.0

1 On the Windows desktop, click Start/Settings/Control Panel.

Alter		<u>P</u> rograms	×		
UO		<u>D</u> ocuments	•		
stati	"	<u>S</u> ettings	þ	Control Panel	el
Mork		Eind	•	<u> </u>	itart Menu
Ł		Help			
Windows		<u>B</u> un			
Wine		Shut Down			
1	Start				

2 Double-click the Network icon.



3 In the Network window, select the Protocols tab. Double-click TCP/IP Protocol.

N	etwork		? ×
	Identification Services	Protocols Adapters Bindings	
	Network Protocols:		
	FinetBEUI Protocol		
	TCP/IP Protocol		

4 When the Microsoft TCP/IP Properties window opens, select the IP Address tab.

Microsoft TCP/IP Properties
IP Address DNS WINS Address Routing
An IP address can be automatically assigned to this network card by a DHCP server. If your network does not have a DHCP server, ask your network administrator for an address, and then type it in the space below.
Adagter:
Ditain an IP address from a DHCP server
C Specify an IP address
IP Address:
Subnet Mask:
Default@ateway.
A <u>d</u> vanced

- **5** In the Adapter drop-down list, make sure your Ethernet adapter is selected.
- **6** If 'Obtain an IP address automatically' is already selected, your computer is already configured for DHCP. If not, select this option and click 'Apply.'

7 Click the DNS tab to see the primary and secondary DNS servers. Record these values, and then click 'Remove.' Click 'Apply', and then 'OK.'

Microsoft TCP/IP Properties	? ×
IP Address DNS WINS Address Routing	
Domain Name System (DNS)	
Host Name: Domain:	
DEMCOMPUTER	
DNS Service Search Order	
	<u>U</u> p†
	Do <u>w</u> n‡
Add Edit Hemove	
Add	
Domain Suffix Search Order	
	Up†
	Down4
Add Edit Bemoys	
Add Edg Seggye	
OK Cancel	Δρρίγ
ON Carber	

8 Windows may copy some files, and will then prompt you to restart your system. Click Yes and your computer will shut down and restart.

TCP/IP Configuration Setting

Primary DNS Server	
Secondary DNS Server	
Default Gateway	
Host Name	·

Disable HTTP Proxy

You need to verify that the 'HTTP Proxy' feature of your web browser is disabled. This is so that your browser can view the ADSL Wireless Base Station's HTML configuration pages (refer to 'Internet Explorer' on page 13).

Obtain IP Settings from Your ADSL Wireless Base Station

Now that you have configured your computer to connect to your ADSL Wireless Base Station, it needs to obtain new network settings. By releasing old DHCP IP settings and renewing them with settings from your ADSL Wireless Base Station, you will verify that you have configured your computer correctly. 1 On the Windows desktop, click Start/Programs/Command Prompt.



2 In the Command Prompt window, type 'IPCONFIG /RELEASE' and press the ENTER key.



3 Type 'IPCONFIG /RENEW' and press the ENTER key. Verify that your IP Address is now 192.168.1.xxx, your Subnet Mask is 255.255.255.0 and your Default Gateway is 192.168.1.1.

Command Prompt

Nicrosoft Windows 2000 floresion 5.00.21951

(C) Copyright 1985-2000 Microsoft Corp.

C:\Documents and Settings\kris_wu>ipconfig/renew
Windows 2000 IP Configuration
Ethernet adapter Local Area Connection:
Connection=specific DNS Suffix .:
IP Address......: 192.168.1.2
Submet Mask: 255.255.0
Default Gateway: 192.168.1.1
C:\Documents and Settings\kris_wu>

These values confirm that your ADSL Wireless Base Station is functioning.

4 Type 'EXIT' and press the ENTER key to close the Command Prompt window.

Your computer is now configured to connect to the ADSL Wireless Base Station.

Windows 2000

- **1** On the Windows desktop, click Start/Settings/Network and Dial-Up Connections.
- **2** Click the icon that corresponds to the connection to your ADSL Wireless Base Station.
- **3** The connection status screen will open. Click Properties.

Local Area Connection 1 Status	<u>? ×</u>
General	
Connection Status: Duration: Speed.	Connected 00:15:12 10:0 Mbps
Activity Sent — Eg Packets: 49	- Received
<u>Properties</u> Disable	
	Close

4 Double-click Internet Protocol (TCP/IP).

e appropriate IP settings.	eed to ask your network administrator for
Obtain an IP address autor	matically
C Use the following IP addre	33.
[P address:	
S <u>u</u> bnet mask:	
Default gateway:	y y y
Obtain DNS server addres	s automatically
C Use the following DNS ser	ver addresses:
Preferred DNS server:	
Alternate DNS server.	

5 If 'Obtain an IP address automatically' and 'Obtain DNS server address automatically' are already selected, your computer is already configured for DHCP. If not, select this option.

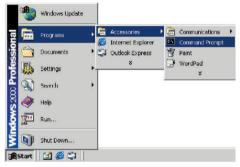
Disable HTTP Proxy

You need to verify that the 'HTTP Proxy' feature of your web browser is disabled. This is so that your browser can view the ADSL Wireless Base Station's HTML configuration pages (refer to 'Internet Explorer' on page 13).

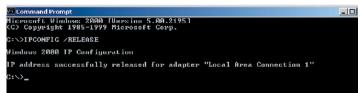
Obtain IP Settings from Your ADSL Wireless Base Station

Now that you have configured your computer to connect to your ADSL Wireless Base Station, it needs to obtain new network settings. By releasing old DHCP IP settings and renewing them with settings from your ADSL Wireless Base Station, you can verify that you have configured your computer correctly.

1 On the Windows desktop, click Start/Programs/Accessories/Command Prompt.



2 In the Command Prompt window, type 'IPCONFIG/RELEASE' and press the ENTER key.



3 Type 'IPCONFIG /RENEW' and press the ENTER key. Verify that your IP Address is now 192.168.1.xxx, your Subnet Mask is 255.255.255.0 and your Default Gateway is 192.168.1.1.

Command Prompt	_ 🗆 🗙
Microsoft Windows 2000 [Version 5.00.2195] (C) Copyright 1985-2000 Microsoft Corp.	^
C:\Documents and Settings\kris_ou>ipconfig/reneo	
Windows 2000 IP Configuration	
Ethernet adapter Local Area Connection:	
Connection-specific DNS Suffix . :	
IP Address	
Subnet Mask	
Default Gateway : 192.168.1.1	
C:\Documents and Settings\kris_wu>	

These values confirm that your ADSL Wireless Base Station is functioning.

4 Type 'EXIT' and press the ENTER key to close the Command Prompt window.

Your computer is now configured to connect to the ADSL Wireless Base Station.

Windows XP

- 1 On the Windows desktop, click Start/Control Panel.
- 2 In the Control Panel window, click Network and Internet Connections.
- **3** The Network Connections window will open. Double-click the connection for this device.
- 4 On the connection status screen, click Properties.
- **5** Double-click Internet Protocol (TCP/IP).
- **6** If 'Obtain an IP address automatically' and 'Obtain DNS server address automatically' are already selected, your computer is already configured for DHCP. If not, select this option.

Disable HTTP Proxy

You need to verify that the 'HTTP Proxy' feature of your web browser is disabled. This is so that your browser can view the ADSL Wireless Base Station's HTML configuration pages (refer to 'Internet Explorer' on page 13).

Obtain IP Settings from Your ADSL Wireless Base Station

Now that you have configured your computer to connect to your ADSL Wireless Base Station, it needs to obtain new network settings. By releasing old DHCP IP settings and renewing them with settings from your ADSL Wireless Base Station, you can verify that you have configured your computer correctly.

- 1 On the Windows desktop, click Start/Programs/Accessories/Command Prompt.
- **2** In the Command Prompt window, type 'IPCONFIG/RELEASE' and press the ENTER key.
- **3** Type 'IPCONFIG /RENEW' and press the ENTER key. Verify that your IP Address is now 192.168.1.xxx, your Subnet Mask is 255.255.255.0 and your Default Gateway is 192.168.1.1. These values confirm that your ADSL Wireless Base Station is functioning.

Type 'EXIT' and press the ENTER key to close the Command Prompt window.

Your computer is now configured to connect to the ADSL Wireless Base Station.

Configuring Your Macintosh Computer

You may find that the instructions here do not exactly match your operating system. This is because these steps and screen shots were created using Mac OS 10.2. Mac OS 7.x and above are similar, but may not be identical to Mac OS 10.2.

Follow these instructions:

1 Pull down the Apple Menu. Click System Preferences.



2 Double-click the Network icon in the Systems Preferences window.

00		Sy	stem Prefere	nces		e
Personal						
		E New	3		1	P
Desktop	Dock	General	International	Login Items	My Account	Screen Effects
Hardware						
6	(\mathbf{Q}	<u> </u>	0	
CDs & DVDs	ColorSync	Displays	Energy Saver	Keyboard	Mouse	Sound
Internet & I	Network					
	. 🙆	Ø	1			
Internet	Network	QuickTime	Sharing			
System						
11	9	A	(0)	8	2	\bigcirc
Accounts	Classic	Date & Time	Software Update	Speech	Startup Disk	Universal Access

3 If 'Using DHCP Server' is already selected in the Configure field, your computer is already configured for DHCP. If not, select this Option.

ow. Built-in Ether	net 😫	:	
ow. Built-in Etnel		leTalk Proxies	
Configure:	Using DHCP	•	
		DNS Servers	(Optional)
IP Address:	10.1.28.83 (Provided by DHCP Server)		
Subnet Mask:	255.255.252.0		
Router	10.1.28.254	Search Domains	(Optional)
DHCP Client ID:	(Optional)		
Ethernet Address	00:50:e4:00:2c:06	Example: apple.com earthlink.ne	et

- **4** Your new settings are shown on the TCP/IP tab. Verify that your IP Address is now 192.168.1.xxx, your Subnet Mask is 255.255.255.0 and your Default Gateway is 192.168.1.1. These values confirm that your ADSL Wireless Base Station is functioning.
- 5 Close the Network window.

Now your computer is configured to connect to the ADSL Wireless Base Station.

Disable HTTP Proxy

You need to verify that the 'HTTP Proxy' feature of your web browser is disabled. This is so that your browser can view the ADSL Wireless Base Station's HTML configuration pages. The following steps are for Internet Explorer.

Internet Explorer

1 Open Internet Explorer and click the Stop button. Click Explorer/Preferences.



2 In the Internet Explorer Preferences window, under Network, select Proxies.

3 Uncheck all check boxes and click OK.

Security Security Zones Ratings	If you are accessing the Internet fro gateways to allow Internet access. for more information. Note: These applications through Internet Config	Contact your network manager settings are shared with other	
Advanced	Use Proxy Servers		
Forms AutoFill	Web Proxy:	Settings	
Forms AutoComplete	Use Web Proxy for all		
AutoFill Profile	Bypass Web Proxy for FTP		
w Receiving Files	Secure Proxy:	Settings	
Download Options File Helpers	Mail Proxy:	Settings	
Cookies	Gopher Proxy:	Settings	
Network Protocol Helpers	List the sites you want to connect set above. Put a space or comma l		
Proxies			
Site Passwords	J		
Te-mail			
General			

Configuring the ADSL Wireless Base Station

Setup Wizard

Quickstart

Service Provider Login

This part allows you to enter the Username and Password as provided by your Internet Service Provider.

Wireless Network Settings

Here you can enable or disable the wireless networking functionality of this Router. When Wireless is enabled, broadcasting your Wireless ID can be enabled or disabled. The Wireless ID (SSID) is the name you wish your network to have.

Pile Edit View Pavorkes	Tools Help		A1
😋 tack • 🕥 · 💌 🛛	address 🗃 http://192.1	68.1.1/setupw.stm	💌 🔁 Go 🛛 Links
PHILIPS			ETUP WIZARD
1. Service Provider Login	Quickstart	Service Provider Login	
2. Connection Status		Provided by Service Provider	
	Username		
	Password		
	Confirm Password		
		Wireless Network Settings	
	Enable Wireless	⊙ ENABLE ○ DISABLE	
	Enable Broadcast	⊙ENABLE ODISABLE	
	Wireless ID(SSID)	Philips WiFi	
		Savo C	hangoo

After entering these settings, click 'Save Changes' to confirm.

When you entered the correct Username and Password, and confirmed these settings, the following screen will appear, telling you the ADSL connection is now operational.

🊈 http://192.168.1.1/setup/w.stm - Mr	crosoft Internet Explorer	X
档案(图)编辑(图) 结视(图) 4	版的晶爱(<u>L</u>) 工具(<u>L</u>) 說明(<u>H</u>)	
÷1-π • → • 🔕 🔄 🖞	Que Banner Gue 3 5303	
網址回 🔕 http://192.168.1.1/aoto	ve stm	
PHILIPS		SETUP WIZARD
1. Service Provider Login 2. Connection Status	ADSL internet connection is working. Rease click the "OK" to return to the main menu. HELP Back OK	ही Home @Logod

Confirm

The Confirm page shows a summary of the configuration parameters.

Status

You can use the Status screen to see the connection status for the router's WAN/LAN interfaces, firmware and hardware version numbers, any illegal attempts to access your network, as well as information on all DHCP client VCS currently connected to your network.

Current Time: 00/01/2003 00:42:26 am

GATEWAY IP Address: 192.168.1.1 Subnet Mask: 255.255.0 DHCP Sorver: Enabled Firewall: Enabled Wireless: Enabled INTERNET ADSL: Physical Down WAN MAC Address: 00-60-4C-3A-37-61 Hardware Version: 01 Serial Num: A432151579

ATM PVC

VC1	195	VC2
VPI/VCI	8/35	
Encapsulation	LLC	
Protocol	PPPoE	
IP Address	Down	
Subnet Mask		Disabled
Gateway		
Primary DNS	-inter-	
Secondary DNS		
Disconnect Conne	đ	

VC3	VC4
Disabled	Disabled

DHCP Client Log

Security Log

View any attempts that have been made to gain access to your network.	View information on LAN DHCP clients currently linked to the router.
08/01/2003 00:42:20 192_165.1.2 10 08/01/2003 00:42:18 User from 192. 08/01/2003 00:42:18 User from 192. 08/01/2003 00:01:14:21 02_165.1.2 10 08/01/2003 00:01:14:21 02_165.1.2 10 08/01/2003 00:00:10:12 192_165.1.2 10 08/01/2003 00:00:07 sending ACK to 08/01/2003 00:00:07 sending ACK to	ip=192.168.1.2 mac=00-00-E2-92-FB
	HELP

ADSL

ADSL (Asymmetric Digital Subscriber Line) is designed to deliver more bandwidth downstream (from the central office to the customer site) than upstream. This section is used to configure the ADSL operation type and shows the ADSL status.

» SETUP WIZARD	ADSL Parameter
SYSTEM	This page allows you to specify the ADSL standards to operate with. You may explicitly
WAN	set a specific standard, or choose "Automatic" to automatically negotiate with remote
LAN	DSLAM.
WIRELESS	Operation Mode: Automatic
NAT	
ROUTE	
FIREWALL	HELP OK Retrain
SNMP	
ADSL	
» Parameters	
» Status	
TOOLS	
STATUS	

Parameter	Description
Operation Mode	 Automatic T1.413 issue 2 G.992.1 G.992.2

This page is designed for the engineer to test the ADSL loop condition. Therefore, it is advised that users should not change the settings here at all.

Status

The Status screen displays information on connection line status, data rate, operation data and defect indication, and statistics.

» SETUP WIZARD	Mon	nitoring Inde	x:				
SYSTEM		ADSL Status Info	mation				
WAN	1.1	 Status 	mation				
LAN		• Data Rate	Informat	tion			
WIRFLESS		 Defect/Fail 	lure Indi	cation			
		<u>Statistics</u>					
NAT		Status:					
ROUTE			Confiau	ured	Current		
FIREWALL		Line Status			INIT		
SNMP		Link Type			Interleaved Path	1	
ADSL		• [Go Top]					
» Parameters							
» Status	1.1	Data Rate:				_	
TOOLS		Stream Typ			ual Data Rate		
STATUS		Up Stream			O (Kbps.)	_	
314103		Down Strea	m		O (Kbps.)		
WAN		Indicator Nar	me	Near E			
WAN				Indicat	or Indicato		
		Indicator Nar Fast Path FE Correction	EC				
LAN		Fast Path FE Correction Interleaved Patl	EC h FEC	Indicat	or Indicato		
LAN WIRELESS		Fast Path FE Correction Interleaved Path Correction	EC h FEC	Indicat 0 0	or Indicato O		
LAN WIRELESS NAT ROUTE		Fast Path FE Correction Interleaved Path Correction Fast Path CRC	EC h FEC Error	Indicat 0 0	or Indicato		
LAN WIRELESS NAT ROUTE FIREWALL		Fast Path FE Correction Interleaved Path Correction	EC h FEC Error	Indicat 0 0	or Indicato O		
LAN WIRELESS NAT ROUTE FIREWALL SNMP		Fast Path FE Correction Interleaved Path Correction Fast Path CRC Interleaved Path	EC h FEC Error h CRC	Indicat 0 0	or Indicato		
LAN WIRELESS NAT ROUTE FIREWALL SNMP ADSL		Fast Path FE Correction Interleaved Path Correction Fast Path CRC Interleaved Path Error Loss of Signal D Fast Path HEC	EC h FEC Error h CRC effect Error	Indicat 0 0 0	or Indicato		
LAN WIRELESS NAT ROUTE FIREWALL SNMP		Fast Path FB Correction Interleaved Path Correction Fast Path CRC Interleaved Path Error Loss of Signal D	EC h FEC Error h CRC effect Error	Indicat 0 0 0 0	or Indicato		
LAN WIRELESS NAT ROUTE FIREWALL SNMP ADSL o Parameters		Fast Path FE Correction Interleaved Path Correction Fast Path CRC Interleaved Path Error Loss of Signal D Fast Path HEC Interleaved Path	EC h FEC Error h CRC effect Error	Indicat 0 0 0 0 0 0	or Indicato		
LAN WIRELESS NAT ROUTE ETREWALL SNMP ADSL 0 Parameters 0 Status TOOLS		Fast Path FF Correction Interleaved Path Correction Fast Path CRC Interleaved Path Error Interleaved Path Error • [Go Top]	EC h FEC Error h CRC effect Error	Indicat 0 0 0 0 0 0	or Indicato		
LAN WIRELESS NAT FIREWALL SNMP ADSL 0 Parameters 0 Status		Fast Path FF Correction Interleaved Path Correction Fast Path CRC Interleaved Path Error Interleaved Path Error • [Go Top] Statistics:	EC h FEC Error h CRC Error h CRC Error h HEC	Indicat 0 0 0 0 0 0 0	or Indicato		
LAN WIRELESS NAT ROUTE ETREWALL SNMP ADSL 0 Parameters 0 Status TOOLS		Fast Path FF Correction Interleaved Path Correction Fast Path CRC Error Loss of Signal D Fast Path HEC Interleaved Path Error [Go Top] Statistics:	EC h FEC Error h CRC Error h HEC Error h HEC Received	Indicat 0 0 0 0 0 0 0	or Indicato		

Parameter	Description
Status	
 Line Status 	Shows the current status of the ADSL line connection.
 Link Type 	Two types of link: Fast path and Interleaved path.
Data Rate	
 Upstream 	Maximum upstream data rate.
 Downstream 	Maximum downstream data rate.
Operation Data/	
Defect Indication	
 Noise Margin 	Maximum upstream and downstream noise margin.
 Attenuation 	Maximum reduction in the strength of the upstream and downstream signal.
 Fast Path FEC 	
Correction	There are two latency paths that may be used: fast and interleaved. For
	either path, a forward error correction (FEC) scheme is employed to ensure
	higher data integrity. For maximum noise immunity, an interleaver may be
	used to supplement FEC.
 Interleaved Path FEC 	An interleaver is basically a buffer used to introduce a delay, allowing for
Correction	additional error correction techniques to handle noise. Interleaving slows
	the data flow and may not be optimal for real-time signals such as video
	transmission.
Fast Path CRC Error	The number of Fast Path Cyclic Redundancy Check errors.
Interleaved Path CRC	
Error	The number of Interleaved Path Cyclic Redundancy Check errors.
Loss of Signal Defect	Momentary signal discontinuities.
Fast Path HEC Error	Fast Path Header Error Concealment errors.
Interleaved Path HEC	
Error	Interleaved Path Header Error Concealment errors.
Statistics	(Superframes represent the highest level of data presentation. Each
	superframe contains regular ADSL frames, one of which is used to provide
	superframe synchronization, identifying the start of a superframe. Some of
	the remaining frames are also used for special functions.)
 Received cells 	Number of cells received.
 Transmitted cells 	Number of cells transmitted.

The following items are included on the ADSL status page:

Advanced Setup

Click on 'Advanced Settings' which is located on the left side of the screen. The left-hand side displays the main menu and the right-hand side shows descriptive information.

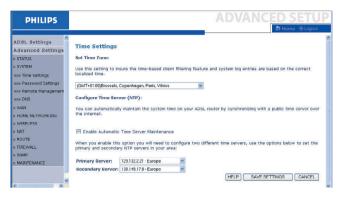


The advanced management interface contains 10 main menu items as described in the following table.

Parameter	Description
STATUS	Provides WAN connection type and status, firmware and hardware version
	numbers, system IP settings, as well as DHCP, NAT, and firewall information.
	Displays the number of attached clients, the firmware versions, the physical
	MAC address for each media interface, and the hardware version and serial
	number. Shows the security and DHCP client log.
SYSTEM	Sets the local time zone, the password for administrator access,
	and the IP address of a PC or notebook that will be allowed to manage the
	ADSL Wireless Base Station remotely.
WAN	Specifies the Internet connection settings.
HOME	
NETWORKING	Sets the TCP/IP configuration for the ADSL Wireless Base Station LAN
	interface and DHCP clients.
WIRELESS	Configures the radio frequency, SSID, and security for wireless communications.
NAT	Configures Address Mapping, virtual server and special applications.
ROUTE	Sets the routing parameters and displays the current routing table.
FIREWALL	Configures a variety of security and specialized functions including:
	Access Control, URL blocking, Internet access control scheduling, intruder
	detection, and DMZ.
SNMP	Community string and trap server settings.
MAINTENANCE	Contains options to backup & restore the current configuration, restore all
	configuration settings to the factory defaults, update system firmware, or reset
	the systems.

Time Settings

Select your local time zone from the drop down list. This information is used for log entries and client filtering.



For accurate timing of log entries and system events, you need to set the time zone. Select your time zone from the drop down list.

If you want to automatically synchronize the ADSL Wireless Base Station with a public time server, check the box to Enable Automatic Time Server Maintenance. Select the desired servers from the drop down menu.

Password Settings

Use this page to change the password for accessing the management interface of the ADSL Wireless Base Station.

PHILIPS		ADVANCED SETUP
ADSIL Settings Advanced Settings s Status s Status s Status s Status s Status s Status s Status s Status s Status s Not s Monte Management s WAN s HOUSE NETWORKING s ROUTE s FOLK PEREMALL s SNAP MAMINETWARCE	Password Settings Bet a password to restrict management access to the router. • Curront Plassword : • Have Password: • Berforder Pasyword for Vestification:	tate time out: 10 jan (tate time =0 : NO time out) IFUP SAVE SETTINGS CANCEL

Passwords can contain from $3\sim12$ alphanumeric characters and are case sensitive.

Note: If you lost the password, or you cannot gain access to the user interface, press the blue reset button on the rear panel, holding it down for at least five seconds to restore the factory defaults. By default, there is no password to login to the user interface.

Enter a maximum Idle Time Out (in minutes) to define a maximum period of time for which the login session is maintained during inactivity. If the connection is inactive for longer than the maximum idle time, it will perform system logout, and you have to log in again to access the management interface. (Default: 10 minutes)

Remote Management

By default, management access is only available to users on your local network. However, you can also manage the ADSL Wireless Base Station from a remote host by entering the IP address of a remote computer on this screen. Check the Enabled check box, and enter the IP address of the Host Address and click 'SAVE SETTINGS'.

		🗈 Home 🐵 Logout
local network), you must also specify the II	address of the n	anage the router from a remote location (outside of the enrote PC.
0,0,0,0		
		HELP SAVE SETTINGS CANCEL
	Set the remote management of the router.	Set the remote management of the router. If you want to m ccal network), you must also specify the IP address of the r Host Address Enabled

Note: If you check Enable and specify an IP address of 0.0.0.0, any remote host can manage the ADSL Wireless Base Station.

For remote management via WAN IP address you need to connect using port 8080. Simply enter WAN IP address followed by :8080, for example, 212.120.68.20:8080.

DNS

Domain Name Servers (DNS) are used to map a domain name (e.g., www.philips.com) with the IP address (e.g., 64.147.25.20). Your ISP should provide the IP address of one or more Domain Name Servers. Enter those addresses on this page, and click 'SAVE SETTINGS'.

PHILIPS	ADVANCED SETU
	tin Home -⊕Logout
ADSL Settings Advanced Settings » STATUS » SYSTEM »>>> Password Settings >>>> Password Settings >>>> Password Settings >>>> Remote Management >>>> DNG >>> WAN	A formain Name Server ((NS)) is an index of IP addresses and Web addresses. If you type a Web address into your browsers, such as www.philes.com/support, a DNS server will find that name in its index and find the matching IP address inconsumous. Note SITE sprovide a DNS server for speed and oncovenence. Can so your Cervice Provider may connect to the Internet with dyname IP aetings, it is likely that the DNS server IP's are also provided dynamically. Herever, if there is a DNE server has you would rober usery. Our needs to people you need to be power IP's are also provided dynamically. Herever, if there is a DNE server has you would rober usery, ow needs to be power IP's are also provided be needed. The DNS server is the server is a different to the Internet with dyname DNS address (getonal) 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
HOME NETWORKING WIRELESS NAT ROUTE FIREWALL SIMMP MAINTENANCE	

WAN

Specify the WAN connection parameters provided by your Internet Service Provider (ISP).

The ADSL Wireless Base Station can be connected to your ISP in one of the following ways:

- ATM PVC
- Clone MAC

PHILIPS		ADVANCED SETUP
		🛱 Home 🛞 Logout
ADSL Settings	WAN	
Advanced Settings	WAIT	
» STATUS	The router can	be connected to your service provider in any of the following ways:
» SYSTEM	ATM PVC	To configure ATM VC parameters
» WAN	Clone MAC	To configure WAN Interface MAC Address
»»» ATM PVC		
»»» Clone MAC Address		
HOME NETWORKING		
WIRELESS		
0 NAT		
ROUTE		
FIREWALL		
8 SNMP		
MAINTENANCE		

ATM PVC

Enter the ATM (Asynchronous Transfer Mode) virtual connection parameters here.

PHILIPS				ी मि	ome @Logo
ADSL Settings	тм рус				
Advanced Settings					
	SL router uses ATM as its lay deway supports up to 8 ATM I		VC is a virtual connection	which acts as a WAN in	terface. The
n SYSTEM					
D WAN	Description	VPI/VCI	Encapsulation	Protocol	
nun ATM PVC	VC1	8/35	LLC	PPPoE	
ana Clone MAC Address	<u>VC2</u>	-/-			
	YC3	-1-		in a la	
» HOME NETWORKING	VC4	-/-			
» WIRELESS	VCS	-/-			
» NAT	VC6	-1-			
» ROUTE	VC7	-/-			-
	VC8	-/-		200	-
» FIREWALL					

Parameter	Description	
Description	Click on the VC to set the values for the connection.	
VPI/VCI	Virtual Path Identifier (VPI) and Virtual Circuit Identifier (VCI).	
Encapsulation	Specifies how to handle multiple protocols at the ATM transport layer.	
	• VC-MUX: Point-to-Point Protocol over ATM Virtual Circuit Multiplexer (null	
	encapsulation) allows only one protocol running per virtual circuit	
	with less overhead.	
	 LLC: Point-to-Point Protocol over ATM Logical Link Control (LLC) allows 	
	multiple protocols running over one virtual circuit (using slightly more	
	overhead).	
Protocol	Protocol used for the connection.	
DHCP Client Log	Displays information on DHCP clients on your network.	

Clone MAC Address

Some ISPs require you to register your MAC address with them. If this is the case, the MAC address of the ADSL Wireless Base Station must be changed to the MAC address that you have registered with your ISP.



Home Networking

Use the Home Networking menu to configure the LAN IP address and to enable the DHCP server for dynamic client address allocation.

PHILIPS	ADVANCED SETUP
	n Home 🕀 Logout
ADSL Settings Advanced Settings » STATUS » SYSTEM » WAN	Home Networking You can enable DHCP to dynamically allocate IP addresses to your client PCs, or configure filtering functions based on specific clients or protocols. The router must have an IP address for the local network. LAN IP
» HOME NETWORKING »»» VLAN » WIRELESS » NAT » ROUTE » FIREWALL	IP Address 192 , 168 , 1 , 1 IP Subnet Mask 255.255.255 0 DHCP Server © Cnabled © Dsabled
» FIREWAIL » SNMP » MAINTENANCE	LANII Defeat V LANI Defeat V LANI Defeat V LANI Defeat V
<	DHCP Server

Note: Remember to configure your client PCs for dynamic address allocation. (See page 11 for details.)

Parameter	Description	
IP Address	The IP address of the ADSL Wireless Base Station.	
IP Subnet Mask	The subnet mask of the network.	
DHCP Server	The ADSL Wireless Base Station comes with the DHCP function.	
	Enable this function to dynamically assign an IP address to client PCs.	
Lease Time	Set the IP lease time. For home networks this may be set to Forever, which	
	means there is no time limit on the IP address lease.	
Start IP Address	Specify the start IP address of the DHCP pool. Do not include the gateway	
	address of the ADSL Wireless Base Station in the client address pool.	
	If you change the pool range, make sure the first three octets match the	
	gateway's IP address, i.e., 192.168.1.xxx.	
End IP Address	Specify the end IP address of the DHCP pool.	
Domain Name	If your network uses a domain name, enter it here.	
	Otherwise, leave this field blank.	

Wireless

The ADSL Wireless Base Station also operates as a wireless access point, allowing wireless computers to communicate with each other. To configure this function, you need to enable the wireless function, define the radio channel, the domain identifier, and the security options. Check Enable and click 'SAVE SETTINGS'.



Channel and SSID

You must specify a common radio channel and SSID (Service Set ID) to be used by the ADSL Wireless Base Station and all of its wireless clients. Make sure you configure all of its clients to the same values.

ADSI. Settings Advanced Settings a STATUS a SYSTEM a WWN a W	SETUP
B STATUS B STATUS B STATUS B STATUS B STATUS B STATUS Can also act as an wireless access point. These parameters are used for the mobile stations to connect works access point. B STATUS	me @Logout
# HOME NETWORKING ESSID Bolgecom WFR # WIDELESS ESSID broadcast © ENABLE DISABLE Base Channel and SSID Winderse. Machine Maxind (11br11g) ¥ Base Access Cortord Channel 6 ¥	nt, the router t to this
wIRELESS ESSID Broadcast © ENNIELE © DISABLE xww Channel and SSID Wireless Mode Mored [[tis110] ¥] xww Access Control Channel & [¥] Entities	
xxxx Access Control	
Channel 6 V	
xxxx Security	
LUNA CONTRACTOR OF	
HELP SAVE SETTINGS	CANCEL
» NAT	
» ROUTE	
» FIREWALL	
» SNMP	

Parameter	Description
ESSID	Extended Service Set ID. The ESSID must be the same on the ADSL Wireless
	Base Station and all of its wireless clients.
ESSID Broadcast	Enable or disable the broadcasting of the SSID.
Wireless Mode	This device supports both 11g and 11b wireless networks.
	Make your selection depending on the type of wireless network that you have.
Channel	The radio channel used by the wireless router and its clients to communicate with each other. This channel must be the same on the ADSL Wireless Base Station and all of its wireless clients.

The ADSL Wireless Base Station will automatically assign itself a radio channel, or you may select one manually.

Security

To make your wireless network safe, you should turn on the security function. The ADSL Wireless Base Station supports WEP (Wired Equivalent Privacy), WPA (Wi-Fi Protected), and 802.1x security mechanisms.



WEP

If you use WEP to protect your wireless network, you need to set the same parameters for the ADSL Wireless Base Station and all your wireless clients.



Parameter	Description
WEP Mode	Select 64 bit or 128 bit key to use for encryption.
Key Entry Method	Select Hex or ASCII code for encryption key generation.
Key Provisioning	Select Static if there is only one fixed key for encryption.
	If you want to select Dynamic, you would need to enable 802.1× function first.
Key Provisioning	Select Static if there is only one fixed key for encryption.
	If you want to select Dynamic, you would need to enable 802.1× function first.

» STATUS				
» SYSTEM	Static WEP Key Setting			
n WAN				
» HOME NETWORKING	10/26 hex digits for 64-WEP/128	8-WEP		
» WIRELESS	Default Key ID	1 -		
www Channel and SSID			100 000 00 00 00 00	
www Access Control	Passphrase		(1~32 characters)	
www.Security	Key 1	0101010101		
DBD WEP	Key 2	0202020202		
BBB WPA				
000 802.1X	Key 3	0303030303		
» NAT	Key 4	0404040404		
» ROUTE		Clear		
» FIREWALL		Crede		
» SNMP				
» MAINTENANCE			HELP SAVE SET	TINGS CANCEL
< >				~

You may automatically generate encryption keys or manually enter the keys. To generate the key automatically with passphrase, check the Passphrase box, enter a string of characters. Select the default key from the drop down menu. Click 'SAVE SETTINGS'.

Note: The passphrase can consist of up to 32 alphanumeric characters.

To manually configure the encryption key, enter five hexadecimal pairs of digits for each 64-bit key, or enter 13 pairs for the single 128-bit key. (A hexadecimal digit is a number or letter in the range 0-9 or A-F.) Note that WEP protects data transmitted between wireless nodes, but does not protect any transmissions over your wired network or over the Internet.

WPA

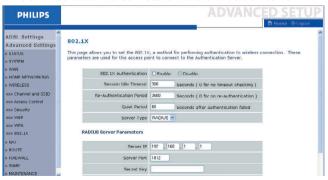
Wi-Fi Protected Access (WPA) combines temporal key integrity protocol (TKIP) and 802.1x mechanisms. It provides dynamic key encryption and 802.1x authentication service.



Parameter	Description
Cypher suite	The security mechanism used in WPA for encryption.
Authentication	Choose 802.1X or Pre-shared Key to use as the authentication method.
	 802.1X: for the enterprise network with a RADIUS server.
	 Pre-shared key: for the SOHO network environment without an
	authentication server.
Pre-shared key type	Select the key type to be used in the Pre-shared Key.
Pre-shared Key	Type in the key here.
Group Key Re-Keying	The period of renewing broadcast/multicast key.

802.1X

If 802.1x is used in your network, then you should enable this function for the ADSL Wireless Base Station. These parameters are used for the ADSL Wireless Base Station to connect to the authentication server.



Parameter	Description
802.1X Authentication	Enable or disable this authentication function.
Session Idle timeout	Defines a maximum period of time for which the connection is maintained
	during inactivity.
Re-Authentication	Defines a maximum period of time for which the authentication server will
Period	dynamically re-assign a session key to a connected client.
Quiet Period	Defines a maximum period of time for which the ADSL Wireless Base
	Station will wait between failed authentications.
Server Type	RADIUS authentication server.
RADIUS Server Param	eters
Server IP	The IP address of your authentication server.
Server Port	The port used for the authentication service.
Secret Key	The secret key shared between the authentication server and its clients.
NAS-ID	Defines the request identifier of the Network Access Server.

NAT

Network Address Translation allows multiple users to access the Internet sharing one public IP.

PHILIPS	
ADSL Settings Advanced Settings © STATUS © STATUS © STATUS © STATUS © STATUS © NUTA © NUTA © NUT © NUT © NUT © NUTA © ROUTE © ROUTE © ROUTE © ROUTE © ROUTE © SUMO © SUMO	NAT Settings Network Address Translation (NAT) allows multiple users at your local site to access the Internet Herough a single public Madesses for exploring public IB addresses. NAT can also prevent backer attacks by mapping local addresses to public addresses for ley services ach as the Web or Orisable Enable or disable NAT module function : ③Enable ①Disable SAVE SETTINGS

Address Mapping

Allows one or more public IP addresses to be shared by multiple internal users. This also hides the internal network for increased privacy and security. Enter the Public IP address you wish to share into the Global IP field. Enter a range of internal IPs that will share the global IP into the 'from' field.



Virtual Server

If you configure the ADSL Wireless Base Station as a virtual server, remote users accessing services such as web or FTP at your local site via public IP addresses can be automatically redirected to local servers configured with private IP addresses. In other words, depending on the requested service (TCP/UDP port number), the ADSL Wireless Base Station redirects the external service request to the appropriate server (located at another internal IP address).

PHILIPS					ADVA	NCED	SETU	P
ADSL Settings Advanced Settings > STATUS > SYSTEM > WAN > WAN > HOME NETWORKING > WIRELESS > NNI BIR Addross Mapping = Wirthal Server	FTP at your private IP ac redirects the tool can sup For example: • Port R • Multipl	figure the router as a local site via public 1 idresses. In other wo external service rec port both port range	IP addresses can be ords, depending on quest to the approp s, multiple ports, ar 80	automatically the requested riate server (k	redirected to lo service (TCP/UI ocated at anoth	cal servers confi P port number),	gured with the router	2
»»» Special Application »»» NAT Mapping Table	No.	LAN IP Address	Protocol Type	LAN Port	Public Port	Enable		
ROUTE	1	192.168.1.	TCP 💌				Add Clean	
	1000	and the second se	(max (10))			-		
FIREWALL	2	192.168.1.	TCP 💌				Add Clean	
SNMP	2	192.168.1. 192.168.1.	TCP V	_			Add Clean Add Clean	
SNMP	777.64		the second se					
FIREWALL SNMP MAINTENANCE	3	192.168.1.	тср 💌	=			Add Clean	

For example, if you set Type/Public Port to TCP/80 (HTTP or web) and the Private IP/Port to 192.168.1.2/80, then all HTTP requests from outside users will be transferred to 192.168.1.2 on port 80. Therefore, by just entering the IP address provided by the ISP, Internet users can access the service they need at the local address to which you redirect them.

A list of ports is maintained at the following link: http://www.iana.org/assignments/port-numbers.

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Special Applications

Some applications require multiple connections, such as Internet gaming, video-conferencing, and Internet telephony.

		0 U B	- select one Battle.net	
ı.		С т С u	Dialpad CU II MSN Gaming Zone PC-to-Phone	
	Popular applica	9	Suick Time 4	Copy t

These applications may not work when Network Address Translation (NAT) is enabled. If you need to run applications that require multiple connections, use these pages to specify the additional public ports to be opened for each application.

PHILIPS				AD)	ANCED	SETU
ADSL Settings Advanced Settings © STATUS © SYSTEM © WAN ■ HOME NETWORKING	Som othe appli Port	rs. These applic cations that req field, select the them for inbour	quire multiple ations cannot uire multiple c protocol typ id traffic.	connections, such as Internet gaming, vide work when Network Address Translation (N onnections, specify the port normally assoc was TCP or UOP, then enter the public port ts is from 11 to 65535.	T) is enabled. If you no iated with an application	eed to run n in the "Trigger
WIRELESS		Trigger Port	Trigger Type	Public Port	Public Type	Enabled
www.Address Mapping	1.		O TCP		⊙ TCP ◯ UDP	
»» Special Application	2.		O TCP		O TCP	
ROUTE	3.		O TCP		O TCP	
SNMP MAINTENANCE	4.		O TCP		O TCP	
MADITERMINE	5.		O TCP		© TCP OUDP	
	8		() TCP		() TCP	

NAT Mapping Table

This page displays the current NAPT (Network Address Port Translation) address mappings.



Route

These pages define routing related parameters, including static routes and RIP (Routing Information Protocol) parameters.

Static Route

Click 'Add' to add a new static route to the list.

PHILIPS					
ADSL Settings Advanced Settings » STATUS		Route Parame		iters:	
» SYSTEM	Index	Network Address	Subnet Mask	Gateway	Configure
» WAN	1	192.168.1.2	255 255 255 0	192.168.1.1	N/A
» HOME NETWORKING » WIRFLESS » NAT » ROUTE »»» Static Route »»» RIP »»» Routing Table					HELP SAVE SETTINGS Council
» FIREWALL » SNMP » MAINTENANCE					

Parameter	Description
Network Address	Enter the IP address of the remote computer for which to set a static
	route.
Subnet Mask	Enter the subnet mask of the remote network for which to set a static
	route.
Gateway	Enter the WAN IP address of the gateway to the remote network.

Click 'Save Settings' to save the configuration.

RIP

PHILIPS							ADVANC	D SETUP
ADSL Settings	RIP Parame	ter						
Advanced Settings			1.021	100				
» STATUS	Please Enter the	following (Configura	ation Parami	eters:			
» SYSTEM	 General RI 	P paramete	#:					
» WAN	RIP m	ade: 💿 Dis	able C	Enable				
» HOME NETWORKING		ary: 💿 Dis						
» WIRELESS	 Table of c 	urrent inter	face RIP	parameter				
» NAT	Interface	Operation	Version	Poison			uthentication	
» ROUTE		mode		Reverse	Requir		Code	
xxxx Static Route	LAN1	Disable M	1 🛩	Disable M	None	~		
xxxx RIP	WLAN	Dicable 👱	1 🛩	Dicable 🜱	None	~		
»»» Routing Table	ATM1	Disoble 👱	1 🛩	Disoble M	None	*		
» FIREWALL	ATM2	Disoble 💌	1 🗠	Disoble 🛩	None	~		
» SNMP	ATM3	Disable 💌	1 🛩	Disable 💌	None	*		
» MAINTENANCE	ATM4	Disable 💌	1 🗸	Diseble 🗸	None	*		

Routing Table

Parameter	Description
Flags	Indicates the route status:
	C = Direct connection on the same subnet.
	S = Static route.
	R = RIP (Routing Information Protocol) assigned route.
	I = ICMP (Internet Control Message Protocol) Redirect route.
Network Address	Destination IP address.
Netmask	The subnetwork associated with the destination.
	This is a template that identifies the address bits in the destination address
	used for routing to specific subnets. Each bit that corresponds to a '1' is part
	of the subnet mask number; each bit that corresponds to 'O' is part of the
	host number.
Gateway	The IP address of the router at the next hop to which frames are
	forwarded.
Interface	The local interface through which the next hop of this route is reached.
Metric	When a router receives a routing update that contains a new or changed
	destination network entry, the router adds 1 to the metric value indicated in
	the update and enters the network in the routing table.

Firewall

The ADSL Wireless Base Station's firewall inspects packets at the application layer, maintains TCP and UDP session information including time-outs and the number of active sessions, and provides the ability to detect and prevent certain types of network attacks.



Network attacks that deny access to a network device are called Denial-of-Service (DoS) attacks. DoS attacks are aimed at devices and networks with a connection to the Internet. Their goal is not to steal information, but to disable a device or network so users no longer have access to network resources.

The ADSL Wireless Base Station firewall function protects against the following DoS attacks: IP Spoofing, Land Attack, Ping of Death, IP with zero length, Smurf Attack, UDP port loopback, Snork Attack, TCP null scan, and TCP SYN flooding. (See page 48-50 for details.)

The firewall does not significantly affect system performance, so we advise leaving it enabled to protect your network. Select Enable and click the 'SAVE SETTINGS' button to open the Firewall submenus.

Access Control

Access Control allows users to define the outgoing traffic permitted or notpermitted through the WAN interface. The default is to permit all outgoing traffic.

Access Contr Access Control allo includes IP address	iws users to defin			
	ring Function :	⊙ Ves ○ No	ed to WAN port service	r. This page
Client PC Description	Client PC IP Address	Client Service	Schedule	Configure
Normal User	192.168.1.2 ~ 10	MIA	Always Blocking	Edit Delete
Add PC		HEL	P SAVE SETTING	IS CANC
	Client PC Description Normal User	Client PC Client PC IP Description Address Normal User 192.168.1.2 ~ 10	Decorption Address Clarif Service Normal User 10:2106.1.2 ** AIM Add PC	Client PC Client C1P Client Service Schedule Uccorption Address Rule Revos Rule Normal User 10 ALM AlM Blocking

The following items are on the Access Control screen:

Parameter	Description
Enable Filtering Functio	on Click Yes to turn on the filtering function.
Normal Filtering Table	Displays the IP address (or an IP address range) filtering table.
	To add the PC to the filtering table:
	1 Click 'Add PC' on the Access Control screen.
	2 Define the appropriate settings for client PC services.

3 Click 'OK' and then click 'SAVE SETTINGS' to save your settings.

DSL Settings	Access Control Add PC		
dvanced Settings	White same allowed some to define any	rvice limitations of client PCs, including IP address, service ty	and and and done of the
STATUS	criteria. For the URL blocking function	on, you need to configure the URL address first on the "URL E	Blocking Site' page. For
SYSTEM	the scheduling function, you also m	eed to configure the schedule rule first on the "Schedule Rule	/* page.
NAN	Client PC Description:		
HOME NETWORKING	* client PG Description:		
VIRELESS	Client PC IP Address: 192.16	58.1. ~	
IAT			
OUTE	Client PC Service:		
TREWALL	Service Name	Detail Description	Blocking
	www	HTTP, TCP Port 80, 3128, 8000, 8001, 8080	
» Access Control	WWW WWW with URL Blocking	HTTP, TCP Port 80, 3128, 8000, 8001, 8080 HTTP (Ref. URL Blocking Site Page)	
» Access Control » MAC Filter			
» Access Control » MAC Filter » URL Blocking	WWW with URL Blocking	HTTP (Ref. URL Blocking Site Page)	
» Access Control » MAC Filter » URL Blocking » Schiedule Rule	WWW with URL Blocking E-mail Sending	HTTP (Ref. URL Blocking Site Page) SMTP, TCP Port 25	
» Access Control » MAC Filter » URL Blacking » Schedule Rule » Intrusion Dotoction	WWW with URL Blocking E-mail Sending News Forums	HTTP (Ref. URL Blocking Site Page) SMTP, TCP Purl 25 NNTP, TCP Port 119	
 Access Control MAC Filter URL Blocking Schedule Rule Intrusion Dotaction MZ 	www with URL Blocking E-mail Sending News Forums E-mail Receiving	HTTP (Ref. URL Blocking Site Page) SMTP, TCP Purt 25 NNTP, TCP Port 119 POP3, TCP Port 110	
	WWW with URL Blocking E-mail Sending News Forums E-mail Receiving Secure HTTP	HTTP (Paf. URL Blocking Site Page) SMTP, TCP Put 25 NNTP, TCP Port 119 PUD9, TCP Port 110 HTTPS, TCP Port 443	

MAC Filter

The ADSL Wireless Base Station can also limit the network access based on the MAC address. The MAC Filtering Table allows the ADSL Wireless Base Station to enter up to 32 MAC addresses that are not allowed access to the WAN port.

PHILIPS				A	DV	ANCED	S
						💼 Ho	ne
ADSL Settings Advanced Settings » STATUS » SYSTEM » WAN » HOME NETWORKINS » WIRELESS » NAT	MAC Filtering Table This section helps provides ty your network. All other clien applies to clients. • MAC Address Contro • MAC Filtering Table (MAC Filter configurat It devices will get der II: ©Yes © No	nied access.	nabled, only This securi	MAC addr	vsses configured will can support up to 33	have dev
» ROUTE	ID		,	AC Address			6
» FIREWALL	1			:	:		
»»» Access Control	2	:	:	:	:		
nun MAC Filter	3	:	: [:	: 🗌	:	
xxxx URL Blocking	4		: [:	: [
awa Schedule Rule	5	:		:		:	
NNN Intrusion Detection	6		: [:] : [:	
»»» DMZ	7	:	:	:	:	:	
» MAINTENANCE	0	:	:	:	:	:	

Click Yes to enable, or No to disable this function.

Enter the MAC address in the space provided and click 'Save Settings' to confirm.

URL Blocking

The ADSL Wireless Base Station allows the user to block access to web sites by entering either a full URL address or just a keyword. This feature can be used to protect children from accessing violent or pornographic web sites.

PHILIPS							
ADSL Settings Advanced Settings » STATUS » SYSTEM » WAN » HOME NETWORKING	of the Web site. To specify the pi	Sites and Keywor ccess to cortain articular PC, go l	Web sites from a partic		ther a full URL address or the box for "Http with UR		
» WIRELESS » NAT	the "Normal Filter	nng Table". Rule Number	URL / Keyword	Rule Number	URL / Keyword		
» ROUTE		Site 1		Site 16			
		Sito 2		Sito 17			
» FIREWALL							
» FIREWALL »»» Access Control		Site 3		Site 18	1		
		Site 3 Site 4		Site 18 Site 19			
»»» Access Control							
www Access Control		Site 4		Site 19			
»»» Access Control »»» MAC Filter »»» URL Blocking		Site 4 Site 5		Site 19 Site 20			
xxxx Access Control xxxx MAC Filter xxxx URL Blocking xxxx Schedule Rule		Site 4 Site 5 Site 6		Site 19 Site 20 Site 21			
xxxx Access Control xxxx MAC Filter xxxx URL Blocking xxxx Schedule Rule xxxx Intrusion Detection		Site 4 Site 5 Site 6 Site 7		Site 19 Site 20 Site 21 Site 22			

You can define up to 30 sites here.

Schedule Rule

You may filter Internet access for local clients based on rules. Each access control rule may be activated at a scheduled time. Define the time schedule on this page, and apply the rule on the Access Control page.

PHILIPS		ADVANCE	D SETUP
ADSL Settings Advanced Settings » STATUS » SYSTEM » WAN	Schedule Rule This page defines schedule rule nam • Schedule Rule Table (up to	nes and activates the schedule for use in the "Access Contro	
» HOME NETWORKING	Rule Name	Rule Comment	Configure
» WIRELESS		No Valid Schedule Rule !!!	
D NAT	Add Schedule Rule		
» ROUTE	Add Schedule Rule		
» FIREWALL			
»»» Access Control		HELP SAVE SET	TINGS CANCEL
»»» MAC Filter		THEF SHITE SET	INGS CANCEE
www.URL.Blocking			
»»» Schedule Rule			
www Intrusion Detection			
DID DMZ			
» SNMP			
» MAINTENANCE			

Follow these steps to add a schedule rule:

- 1 Click 'Add Schedule Rule'.
- **2** Define the appropriate settings for a schedule rule (as shown in this example).

3 Click 'OK' and then click 'SAVE SETTINGS' to save your settings.

dvanced Settings STATUS STATUS WAN NAME Intervente WERLEGO NAT RACEVATE Time Period: Werk Day Start Time (hh.mm) Activate Time Period: Werk Day Start Time (hh.mm) Every Day Start Time (hh.mm	PHILIPS			A	DVANCE	D SEI
NMT Wwek Day Start Time (thickme) End Time (thicme) ROUTE Every Day : : : BRUE Sunday : : : : Wie Access Control Minday : : : : : Wie Access Control Minday :	Advanced Settings • STATUS • SYSTEM • WAN	ame:	e			
Standay : : ma Access Control Monday : : an MAC Filter Tuesclay : : an MAC Filter Tuesclay : : as Schedule Pulse Thursday : : as Infrusion Detection as Entry : : :	9 WIRELESS 9 NAT					
Tuesday 1 1 Na UKE Biotenia Wednosday 1 1 Na UKE Biotenia Thursday 1 1	9 FIREWALL					
as Schedule Rule 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	nan MAC Filter					
W Intrusion Detection Friday	»»» Schedule Rule					
	www Intrusion Detection	1				

Intrusion Detection

Intrusion Detection Feature

Stateful Packet Inspection (SPI) and Anti-DoS firewall protection (Default: Enabled) - The Intrusion Detection Feature of the ADSL Wireless Base Station limits access for incoming traffic at the WAN port. When the SPI feature is turned on, all incoming packets will be blocked except for those types marked in the Stateful Packet Inspection section.

RIP Defect (Default: Disabled) - If an RIP request packet is not acknowledged to by the router, it will stay in the input queue and not be released. Accumulated packets could cause the input queue to fill, causing severe problems for all protocols. Enabling this feature prevents the packets from accumulating.

Discard Ping to WAN (Default: Disabled) - Prevent a ping on the ADSL Wireless Base Station's WAN port from being routed to the network.

PHILIPS		ADV	ANCED SETU	P
ADSL Settings Advanced Settings » SYSTEM » WAN » HOME NETWORKING » WIRELEGS » NAT	Intrusion Detection When the SPI (Startef Packet Inspection) finwall inspection (SPI) allows full support of different applications checked in the list below, the Device w The Device Infowall cash block common hacker attack zero length, Smir attack, UP prof to thatker, Smir Intrusion Detection Feature	ation types that are using I support full operation as in s, including IP Spoofing, Lar	s can be blocked. Stateful Packet dynamic port numbers. For the tixtlad from the local LAN. Id Attack, Ping of Death, IP with	
» ROUTE	SPI and Anti-DoS firewall protection			
FIREWALL	RIP defect	V		
own Access Control	Discard Ping To WAN			
non URL Blacking	Stateful Packet Inspection			
www Intrusion Detection	Packet Fragmentation			
www.DMZ	TCP Connection			
SNMP	UDP Session			
MAINTENANCE	FTP Service			

PHILIPS	
ADSL Settings	H.323 Service
dvanced Settings	TFTP Service
STATUS	When hackers attempt to enter your network, we can alert you by e-mail
SYSTEM	 when nackers attempt to enter your network, we can alert you by e-mail
WAN	Your E-mail Address :
HOME NETWORKING	
WIRELESS	SMTP Server Address :
NAT	POP3 Server Address :
ROUTE	POPS Server Address :
FIREWALL	User name :
»» Access Control	
on MAC Filter	Password :
w URL Blocking	Connection Policy
on Schedule Rule	Connection Policy
Intrusion Detection	Fragmentation half-open wait: 10 secs
»» DMZ	
SNMP	TCP SYN wait: 30 sec.
MAINTENANCE	
	TCP FIN wait: 5 Sec.
PHILIPS	ADVANCED SET
DSL Settings	Dos Detect Criteria:
DSL Settings dvanced Settings	
DSL Settings dvanced Settings STATUS SYSTEM	bos Detect Critoria: Total incomplete TCP/LOP sessions HIGH: 0000
DSL Settings dvanced Settings STATUS SYSTEM WAN	Bos Detect Criteria: Total incomplete TCP/UDP sessions HIGH: 000 Session Total incomplete TCP/UDP sessions DW; 250 Session
DSL Settings dvanced Settings status status system WAN HOME NETWORKING	bos Detect Critoria: Total incomplete TCP/LOP sessions HIGH: 00
DSL Settings dvanced Settings STATUS SYSTEM WAN HOME NETWORKING WIRELESS	ADVANCED SET More @ Love to DoS Detect Criteria: Total incomplete TCP/UDP sessions HGH: 000 session Total incomplete TCP/UDP sessions LOW; 250 session Incomplete TCI/UDP sessions (per min) HIGH: 250 cession
DSL Settings dvanced Settings status system WAN Home networking WIRELESS	bos Detect Criteria: Total incomplete TCP/UDP sessions HIGH: 000 Session Total incomplete TCP/UDP sessions DW; 250 Session
DSL Settings dvanced Settings STATUS SYSTEM WAN HOME NETWORKING WIRELEDS NAT ROUTE	ADVANCED SET More @ Love • Dos Detect Criteria: Total incomplete TCP/UOP sessions HIGH: 000 session Total incomplete TCP/UOP sessions LOW; 050 session Incomplete TCP/UOP sessions (per min) HUGH: 050 session Incomplete TCP/UOP sessions (per min) LOW; 010 session
DSL Settings dvanced Settings STATUS SYSTEM WAN HOME NETWORKING WIRELEDS NAT ROUTE	ADVANCED SET More @ Love to DoS Detect Criteria: Total incomplete TCP/UDP sessions HGH: 000 session Total incomplete TCP/UDP sessions LOW; 250 session Incomplete TCI/UDP sessions (per min) HIGH: 250 cession
DSL Settings dvanced Settings STATUS SYSTEM WAN HOME NETWORKING WIRELESS NAT ROUTE FIREWALL	ADVANCED SET More @ Love • Dos Detect Criteria: Total incomplete TCP/UOP sessions HIGH: 000 session Total incomplete TCP/UOP sessions LOW; 050 session Incomplete TCP/UOP sessions (per min) HUGH: 050 session Incomplete TCP/UOP sessions (per min) LOW; 010 session
DSI Settings dvanced Settings Status Status System MAN HOME NETWORKING WIRELESS Nat ROUTE FIREWALL Society Control	Dos Detect Critoria: Total incomplete TCP/UOP sessions HIGH: 000 session Total incomplete TCP/UOP sessions HIGH: 000 session Incomplete TCP/UOP sessions Corr min) HIGH: 050 session Incomplete TCP/UOP sessions number from same host: 10 Incomplete TCP/UDP sessions number from same host: 10 Incomplete TCP/UDP sessions detect sensitive time pariod: 300 msec.
DSI Settings dvanced Settings SYSTEM WAN HOME NETWORKING WIRELEDS NAT ROUTE FIREWILL WACCEERE	ADVANCED SET More @Love • Dos Detect Critoria: Total incomplete TCP/UDP sessions HIGH: 000 session Total incomplete TCP/UDP sessions LOW: 250 session Incomplete TCP/UDP sessions (per min) LUW: 250 session Incomplete TCP/UDP sessions number from same host: 10
DSL Settings dvanced Settings SINIUS SINIUS SINIUS SINIUS MAN NAN ROUTE FIREWOLL IN ADDES CONTOL IN ADDES CONTOL INTERCONTOL INTERCONTOL INTERCONTOL INTERCONT	Dos Detect Critoria: Total incomplete TCP/UOP sessions HIGH: 000 session Total incomplete TCP/UOP sessions HIGH: 000 session Incomplete TCP/UOP sessions Corr min) HIGH: 050 session Incomplete TCP/UOP sessions number from same host: 10 Incomplete TCP/UDP sessions number from same host: 10 Incomplete TCP/UDP sessions number from same host: 10 Incomplete TCP/UDP sessions number from same host: 10
DSL Settings dvanced Settings SINIUS SINIUS SINIUS SINIUS MAN NAN ROUTE FIREWOLL IN ADDES CONTOL IN ADDES CONTOL INTERCONTOL INTERCONTOL INTERCONTOL INTERCONT	Dos Detect Critoria: Total incomplete TCP/UOP sessions HIGH: 000 session Total incomplete TCP/UOP sessions HIGH: 000 session Incomplete TCP/UOP sessions Corr min) HIGH: 050 session Incomplete TCP/UOP sessions number from same host: 10 Incomplete TCP/UDP sessions number from same host: 10 Incomplete TCP/UDP sessions detect sensitive time pariod: 300 msec.
D.S.L. Settings dvanced Bettings status status status status wai House Internositus wai House Charlo as Acessic Cortrol as Aces	Dos Detect Critoria: Total incomplete TCP/UOP sessions HIGH: 000 session Total incomplete TCP/UOP sessions HIGH: 000 session Incomplete TCP/UOP sessions Corr min) HIGH: 050 session Incomplete TCP/UOP sessions number from same host: 10 Incomplete TCP/UDP sessions number from same host: 10 Incomplete TCP/UDP sessions number from same host: 10 Incomplete TCP/UDP sessions number from same host: 10
DEL Settings dvanced Settings status syntem wan how networking wiffelles nat noute referendl as Acess Control as MAC Filer status as Checken as Status as Status as Status status	Dos Detect Criteria: Total incomplete TCP/UOP sessions HIGH: 000 session Total incomplete TCP/UOP sessions LOW: 000 session Incomplete TCP/UOP sessions number from same host: 10 Incomplete TCP/UOP sessions number from same host: 10

Scroll down to view more information.

Stateful Packet Inspection

This is called a 'stateful' packet inspection because it examines the contents of the packet to determine the state of the communications; i.e., it ensures that the stated destination computer has previously requested the current communication. This is a way of ensuring that all communications are initiated by the recipient computer and are taking place only with sources that are known and trusted from previous interactions. In addition to being more rigorous in their inspection of packets, stateful inspection firewalls also close off ports until connection to the specific port is requested.

When particular types of traffic are checked, only the particular type of traffic initiated from the internal LAN will be allowed. For example, if the user only checks 'FTP Service' in the Stateful Packet Inspection section, all incoming traffic will be blocked except for FTP connections initiated from the local LAN.

Stateful Packet Inspection allows you to select different application types that are using dynamic port numbers. If you wish to use the Stateful Packet Inspection (SPI) to block packets, click on the Yes radio button in the 'Enable SPI and Anti-DoS firewall protection' field and then check the inspection type that you need, such as Packet Fragmentation, TCP Connection, UDP Session, FTP Service, H.323 Service, or TFTP Service.

• When hackers attempt to enter your network, we can alert you by e-mail

If the mail server needs to authenticate your identification before sending out any e-mail, please fill related information in POP3 server, username and password fields. Otherwise leave the three fields blank.

Connection Policy

Enter the appropriate values for TCP/UDP sessions as described in the following table.

Parametre	Defaults	Description
Fragmentation	10 sec	Configures the number of seconds that a packet state structure
half-open wait		remains active. When timeout value expires, the router drops the
		unassembled packet, freeing that structure for use by another packet.
TCP SYN wait	30 sec	Defines how long the software will wait for a TCP session to
		synchronize before dropping the session.
TCP FIN wait	5 sec	Specifies how long a TCP session will be maintained after the
		firewall detects a FIN packet.
TCP connection	3600 sec	The length of time for which a TCP session will be managed if
idle timeout	(1 hour)	there is no activity.
UDP session idle	30 sec	The length of time for which a UDP session will be managed if
timeout		there is no activity.

DoS Criteria and Port Scan Criteria

Set up DoS and port scan criteria in the spaces provided (as shown below).

Parametre Defaults Description	
Total incomplete 300 Defines the rate of new unestablished ses	ssions that will cause the
TCP/UDP sessions sessions software to start deleting half-open session	ons.
HIGH	
Total incomplete 250 Defines the rate of new unestablished ses	ssions that will cause the
TCP/UDP sessions sessions software to stop deleting halfopen session	ns.
LOW	
Incomplete 250 Maximum number of allowed incomplete	TCP/UDP sessions
TCP/UDP sessions sessions per minute.	
(per min) HIGH	
Incomplete 200 Minimum number of allowed incomplete	TCP/UDP sessions
TCP/UDP sessions sessions per minute.	
(per min) LOW	
Max. incomplete TCP/ 10 Maximum number of incomplete TCP/UE	DP sessions
UDP sessions number from the same host.	
from same host	
Incomplete TCP/ 300 Length of time before an incomplete TCP	P/UDP session is detected
UDP sessions detect msec as incomplete.	
sensitive time period	
Maximum half-open 30 Maximum number of half-open fragmenta	ation packets from
fragmentation packet the same host.	
number from same	
host	
Half-open 10000 Length of time before a half-open fragme	entation session is
fragmentation detect msec detected as half-open.	
sensitive time period	
Flooding cracker 300 sec Length of time from detecting a flood atta	ack to blocking the attack.
block time	

Note: The firewall does not significantly affect system performance, so we advise enabling the prevention features to protect your network.

DMZ

If you have a client PC that cannot run an Internet application properly from behind the firewall, you can open the client up to unrestricted twoway Internet access. Enter the IP address of a DMZ (Demilitarized Zone) host on this screen. Adding a client to the DMZ may expose your local network to a variety of security risks, so only use this option as a last resort.

PHILIPS		ADVANCED SETUP
		n Home
ADSL Settings Advanced Settings » STATUS » SYSTEM » WAN		n an Internet application properly from behind the NAT forwall, then you way Internet access by defining a Virtual DM2 Host.
» HOME NETWORKING » WIRELESS » NAT	Multiple PCs can be exposed to the Internet or VPN connections. To use the DMZ, you	t for two-way communications e.g. Internet gaming, video conferencing, must set a static IP address for that PC.
» ROUTE	Public IP Address 1. 0.0.0.0	Client PC IP Address
xxx Access Control	2. U. U. U. U. U. 3. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	192.168.1.0
oon URL Blocking non Schedule Rule	1. 0 . 0 . 0 5. 0 . 0 . 0 . 0	192.168.1.0
www.Intrusion Detection	6. 0 . 0 . 0 7. 0 . 0 . 0 . 0	192.160.1.0
MAINTENANCE	8. 0, 0, 0, 0	192.160.1.0

SNMP

Use the SNMP configuration screen to display and modify parameters for the Simple Network Management Protocol (SNMP).

Community

A computer attached to the network, called a Network Management Station (NMS), can be used to access this information. Access rights to the agent are controlled by community strings. To communicate with the ADSL Wireless Base Station, the NMS must first submit a valid community string for authentication.



Parameter	Description
Community	A community name authorized for management access.
Access	Management access is restricted to Read Only (Read) or Read/Write (Write).
Valid	Enables/disables the entry.

Note: Up to five community names may be entered.

Trap

Specify the IP address of the NMS to notify when a significant event is detected by the agent. When a trap condition occurs, the SNMP agent sends an SNMP trap message to any NMS specified as a trap receiver.

PHILIPS						AD	VANCED SET
DSL Settings dvanced Settings STATUS SYSTEM	SNMP Trap In the context of SNMP notify the management					sent by an agent to	management station. The purpose
WAN	1	NO. I	Address			Community	Version
HOME NETWORKING	1	1 1	.0	.0	.0		Disabled 💌
WIRELESS NAT	2	2	.0	.0	0		Disabled 💌
ROUTE	3	з Т	.0	.0	.0	1	Disabled V
FIREWALL	4	4 [.0	.0	0		Disabled 🛩
C111/D				10	11.		
SNMP	5	5 1	0	.0	.0		Disabled 💙

Parameter	Description
IP Address	Traps are sent to this address when errors or specific events occur on the
	network.
Community	A community string (password) specified for trap management.
	Enter a word, something other than public or private, to prevent unauthorized
	individuals from accessing information on your system.
Version	Sets the trap status to disabled, or enabled with V1 or V2c.
	The v2c protocol was proposed in late 1995 and includes enhancements to v1
	that are universally accepted. These include a get-bulk command to reduce network management traffic when retrieving a sequence of MIB variables, and a more elaborate set of error codes for improved reporting to a Network Management Station.

Finding the MAC address of a Network Card

Windows 98/ME

Click Start/Run. Type 'winipcfg' and press 'ENTER'.

The MAC address is in the 'Adapter Address' section.

Windows NT4/2000/XP

Click Start/Programs/Command Prompt. Type 'ipconfig /all' and press 'ENTER'.

The MAC address is listed as the 'Physical Address.'

Macintosh

Click System Preferences/Network.

The MAC address is listed as the 'Ethernet Address' on the TCP/IP tab.

Linux

Run the command '/sbin/ifconfig.'

Maintenance

Use the Maintenance menu to backup the current configuration, restore a previously saved configuration, restore factory settings, update firmware, and reset the ADSL Wireless Base Station.

Configuration Tools

Choose a function and click Next.



Backup allows you to save the ADSL Wireless Base Station's configuration to a file. Restore can be used to restore the saved backup configuration file. Restore to Factory Defaults resets the ADSL Wireless Base Station to the original settings. You will be asked to confirm your decision.

Firmware Upgrade

Use the Firmware Upgrade screen to update the firmware or user interface to the latest versions. Download the upgrade file, and save it to your hard drive. Then click 'Browse...' to look for the downloaded file. Click 'BEGIN UPGRADE'. Check the Status page Information section to confirm that the upgrade process was successful.

Reset

Click 'REBOOT ROUTER' to reset the ADSL Wireless Base Station.



If you perform a reset from this page, the configurations will not be changed back to the factory default settings.

Note: If you use the Reset button on the rear panel, the ADSL Wireless Base Station performs a power reset. Press the button for over five seconds, and the factory default settings will be restored.

Status

The Status page displays WAN/LAN connection status, firmware, and hardware version numbers, illegal attempts to access your network, as well as information on DHCP clients connected to your network. The security log may be saved to a file by clicking 'Save' and choosing a location.

Status

You can use the Status screen to see the connection status for the router's WAN/LAN interfaces, firmware and hardware version numbers, any illegal attempts to access your network, as well as information on all DHCP client PCs currently connected to your network.

Current Time: 08/01/2003 00:42:26 am

INTERNET ADSL: Physical Down

GATEWAY IP Address: 192.168.1.1 Subnet Mask: 255.255.255.0 DHCP Server: Enabled Firewall: Enabled Wireless: Enabled

CATEWAY

INFORMATION

Numbers of DHCP Clients: 1 Runtime Code Version: 0.28 (Sep 1 2004 09:40:49) Boot Code Version: 0.62 ADSL Modem Code Version: 01.01.07.00B LAN MAC Address: 00-60-4C-3A-37-60 Wireless MAC Address: 00-60-4C-3A-37-62 WAN MAC Address: 00-60-4C-3A-37-61 Hardware Version: 01 Serial Num: A432151579

ATM PVC

VC1		VC2	
VPI/VCI	8/35		
Encapsulation	LLC		
Protocol	PPPoE		
IP Address	Down		
Subnet Mask		Disabled	
Gateway			
Primary DNS			
Secondary DNS			
Disconnect Connect			
VC3		VC4	
Disabled		Disabled	

Security Log

View any attempts that have been made to gain access to your network. 08/01/2003 00:42:20 192.168.1.2 10 08/01/2003 00:42:10 192.160.1.2 10 08/01/2003 00:42:18 User from 192. 08/01/2003 00:42:18 User from 192. 08/01/2003 00:31:42 192.168.1.2 10 08/01/2003 00:30:42 192.168.1.2 10 08/01/2003 00:00:42 192.168.1.2 10 < > Save Clear Refresh

DHCP Client Log View information on LAN DHCP clients currently linked to the router.

ip=192.168.1.2 mac=00-00-E2-92-FB

HELP

The following items are included on the Status page:

ltem	Description
INTERNET	Displays WAN connection type and status. Click the Connect button to
	connect to your ISP.
GATEWAY	Displays system IP settings, as well as DHCP Server and Firewall status.
INFORMATION	Displays the number of attached clients, the firmware versions, the physical
	MAC address for each media interface, and for the ADSL Wireless Base
	Station, as well as the hardware version and serial number.
Security Log	Displays illegal attempts to access your network.
• Save	Click on this button to save the security log file.
• Clear	Click on this button to delete the access log.
Refresh	Click on this button to refresh the screen.
DHCP Client Log	Displays information on DHCP clients on your network.

How to set-up a computer network?

The next pages will show you an example of how to set-up a computer network using the Philips ADSL Wireless Base Station.

 Warning:
 The ADSL Wireless Base Station only establishes a connection between your wireless network devices. How you use this connection is up to you.

Setting-up a computer network is to be seen as an independent application that requires networking software from other manufacturers. For example, the networking software that has been incorporated in the Windows Operating System by Microsoft.

Therefore, the description below is to be seen as an example only.

WHAT IS YOUR WINDOWS VERSION?

- Start setting-up your network with the computer that has the latest operating system. The order of preference being: Windows XP, Windows 2000, Windows Me, and finally Windows 98SE.
- 2. Use its Networking Setup Wizard and allow it to make a networking setup diskette.
- 3. With this diskette, set-up your remaining computers.

For Windows XP and Windows 2000.

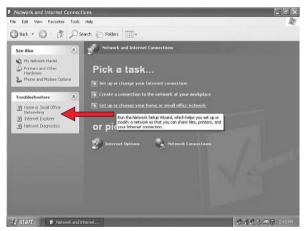
See further on in this chapter for Windows Me and Windows 98SE.



Click the Windows Start button, and click "Control Panel" from the list.



Double-click the "Network and Internet connections" icon.



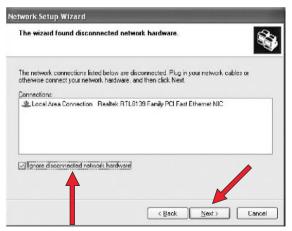
Click in the list to the left on "Setting-up a home network or small business network".



The Wizard Network Setup appears. Click 'Next' to continue.

Wizard Network Settings

- Please, carefully read the instructions the Wizard gives you, and adapt your choices to the type of network you want to set-up. Use the Help feature within the Wizard if you need more information while using the Wizard.
- 2. In each window, click 'Next' to go to the next step.
- 3. Below, we will describe some of the crucial steps of this Wizard.



Place a check mark to ignore any broken network connections before clicking 'Next' to continue.

work Setup Wizari					
Give this computer a	a description and name.				
Computer description:	My Computer at Home				
	Examples: Family Room Computer or Monica's Computer				
Egmputer name:	MY_LAPTOP				
	Examples: FAMILY or MONICA				
The current computer na	anie is TJARKO_LAPTOP.				
Some Internet Service P often true for computers	roviders (ISPs) require that you use a specific computer name. This is with a cable modern.				
If this is the case for you	r computer, do not change the computer name provided by your ISP.				
Learn more about <u>comp</u>	uter names and descriptions				

- 1. Enter a description that helps you recognize the computer.
- 2. Enter a name that is different for each computer.
- 3. Click 'Next' to continue.

Name your network	\$
Name your network by should have the same	specifying a workgroup name below. All computers on your network workgroup name.
Workgroup name:	MYNETWORK
	Examples: HOME or DFFICE
	<back next=""> Cancel</back>

Enter the same workgroup name for all computers in the network, then click 'Next' to continue.

Network Setup Wizard	
You're almost done	S
You need to run the Network Setup network. To run the wizard on comp the Windows XP CD or a Network S	Wizard once on each of the computers on your outers that are not running Windows XP, you can use Setup Disk.
What do you want to do?	
Create a Network Setup Disk	
◯ Use the Network Setup Disk I already h	ave
O Use my Windows XP CD	
Outuat finish the wizard: I don't need to run	the wizard on other computers
	Eack Next Cancel

Choose to make a networking setup disk. Then click 'Next'.



Click 'Finish' to close the Wizard, and then use the disk you made to set-up your other computers.

1		My Pictures Properties	? >
My Documents File Edit View F Sock - → Folders Decktop E → My Documents My Documents E → WirPkutter B → WirPkutter B → WirPkutter B → WirPkutter	ktop Shortcuts	Forward Sharing Could having and exoluty To that the folder with other users of this computer To that the folder with other users of this computer To have the folder of the additional provides on the more start of the folder with other exocut, select the foldering of these Market the folder provide Network, there are additional provides Network, the folder with both network, users and other the folder on the restrook. Share areas: (by Produze) Network there are addition on the restrook. Share and the folder on the restrook. Share and the folder on the restrook.	t xx.
Recycle Bin	Kes WiFPick	Learn more about <u>inhation and security.</u> U.K. Lancel App Recycle En +	aply .

To share folders with the network: Start Windows Explorer and right-click the folder you wish to share with the network. Click the 'Sharing' tab and adapt the settings.

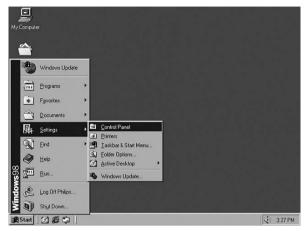


To explore the network: Double-click the Network Environment icon on the desktop.

If you need more information, consult Windows Help.

For Windows 98SE and Windows Me.

See earlier on in this chapter for Windows XP and Windows 2000.



Click the Windows Start button, click "Settings", and click "Control Panel" from the list.

Elle Edit View Go	Favorites Help	044		N. A.B. 1921	
🗧 - 🔿 - Back Forward -	Up X	Copy		indo Delete	Propertie
Address 🕅 Control Panel					
~	é.	-	19.9.9	兴	
38	Accessibility	Add New	Add/Remove	Date/Time	Display
Control	Options	Hardware	Programs		
Panel	A.	e.	1		D)
	Fants	Game	Internet	yboard	Modems
Network Configures network	<i>c</i>	Controllers	Options		-
hardware and software.	Ó	34	투율	27	R
	Mouse	Multimedia	Network	ODBC Data Sources (32bit)	Password
<u>Microsoft Home</u> Technical Support	3.69	Co		-14	
Technical Support		See.	0		Sug
	Power Management	Printers	Regional Settings	Sounds	System
	10	onfigures netv	Kork har 🗏 Ms	Computer	

Double-click the "Network" icon.

letwork.		? ×
Configuration Identification Ac	cess Control	
The following getwork component	ents are installed:	
Clent for Microsoft Network Diał-Up Adapter Realtek RTL8029(AS) PCI Wieless US8 Adapter 11g	Ethernet NIC	×
Add Fill Primary Network Logon: Windows Logon	nove P	coperties
Elle and Print Sharing		
	ОК	Cancel

Click the 'Identification' tab.

work	5
onfiguration Iden	tilication Access Control
comput comput	vs uses the following information to identify your er on the network. Please type a name for this ter, the workgroup it will appear in, and a short tion of the computer.
Computer name:	
Workgroup:	WORKGROUP
Computer Description:	My Home Computer

- 1. Enter a name that is different for each computer.
- 2. Enter the same workgroup name for all computers in the network.
- 3. Enter a description that helps you recognize the computer.
- 4. Click on the 'Configuration' tab to continue.

twork	7
Configuration Access Control	
The following petwork components are installed:	
Clent for Microsoft Networks Dia/Up Adapter Realtek RTL9029(AS) PCI Ethemet NIC Vineless USB Adapter 11g Vineless USB Adapter 11g	1
Add. Remove Reportes Primary Network Logon: Vindows Logon	
Ele and Print Sharing	
OK. Car	ncel

Click the 'Sharing files and printers' button.

	? X
give others access to	my files.
allow others to print to	my printer(s).
OK	Cancel
	give others access to allow others to print to OK

Select the access options you want, and click 'OK' to continue.



Click 'OK' to accept the changes.



To share folders with the network: Start Windows Explorer and right-click the folder you wish to share with the network. Click the 'Sharing' tab and adapt the settings.



To explore the network: Double-click the Network Environment icon on the desktop.

If you need more information, consult Windows Help.

Troubleshooting

This section describes common problems you may encounter and possible solutions to them. The ADSL Wireless Base Station can be easily monitored through panel indicators to identify problems.

Problem	Solution				
Power LED is Off	 Check connections between the ADSL Wireless Base Station, the external power supply, and the wall outlet. If the power indicator does not turn on when the power cord is plugged in, you may have a problem with the power outlet, power cord, or external power supply. However, if the unit powers off after running for a while, check for loose power connections, power losses, or surges at the power outlet. If you still cannot isolate the problem, then the external power supply may be defective. In this case, contact Technical Support for assistance. 				
Link LED is Off	 Verify that the ADSL Wireless Base Station and attached device are powered on. Be sure the cable is plugged into both the ADSL Wireless Base Station and the corresponding device. Verify that the proper cable type is used and that its length does not exceed the specified limits. Make sure that the network interface on the attached device is configured for the proper communication speed and duplex mode. Check the adapter on the attached device and cable connections for possible defects. Replace any defective adapter or cable if necessary. 				
Cannot ping the ADSL Wireless Base Station from the attached LAN	 Verify that the IP addresses are properly configured. For most applications, you should use the ADSL Wireless Base Station's DHCP function to dynamically assign IP addresses to hosts on the attached LAN. However, if you manually configure IP addresses on the LAN, verify that the same network address (network component of the IP address) and subnet mask are used for both the ADSL Wireless Base Station and any attached LAN devices. Make sure the device you want to ping (or from which you are pinging) has been configured for TCP/IP. 				
Cannot connect using the web browser	 Be sure to have configured the ADSL Wireless Base Station with a valid IP address, subnet mask, and default gateway. Check that you have a valid network connection to the ADSL Wireless Base Station and that the port you are using has not been disabled. Check the network cabling between the management station and the ADSL Wireless Base Station. 				
Forgot or lost the password	• Press the Reset button on the rear panel (holding it down for at least five seconds) to restore the factory defaults.				

Problem	Solution
Power LED is Off	 Check connections between the ADSL Wireless Base Station, the external power supply, and the wall outlet. If the power indicator does not turn on when the power cord is plugged in, you may have a problem with the power outlet, power cord, or external power supply. However, if the unit powers off after running for a while, check for loose power connections, power losses, or surges at the power outlet.
	If you still cannot isolate the problem, then the external power supply may be defective. In this case, contact Technical Support for assistance.
A wireless PC cannot associate with the ADSL Router	 Make sure the wireless PC has the same SSID settings as the ADSL Wireless Base Station. See 'Channel and SSID' on page 36. You need to have the same security settings on the clients and the ADSL Wireless Base Station. See 'Security' on page 36.
The wireless network is often interrupted	 Move your wireless PC closer to the ADSL Wireless Base Station to find a better signal. If the signal is still weak, change the angle of the antenna. There may be interference, possibly caused by a microwave ovens or wireless phones. Change the location of the interference sources or of the ADSL Wireless Base Station. Change the wireless channel on the ADSL Wireless Base Station. See 'Channel and SSID' on page 36. Check that the antenna, connectors, and cabling are firmly connected.
The ADSL Wireless Base Station cannot be detected by a wireless client	 The distance between the ADSL Wireless Base Station and wireless PC is too great. Make sure the wireless PC has the same SSID and security settings as the ADSL Wireless Base Station. See ADSL Wireless Base Station. See 'Channel and SSID' on page 36 and 'Security' on page 36.

Specifications

Physical Characteristics

Ports

- Four 10/100Mbps RJ-45 Ports
- One ADSL RJ-11

ADSL Features

- Supports DMT line modulation
- Supports Annex A Full-Rate ADSL: up to 8 Mbps downstream, up to 1 Mbps upstream (G.992.1 &T1.413, Issue 2)
- Supports G.Lite ADSL: up to 1.5 Mbps downstream, up to 512 Kbps upstream
- Dying GASP support

ATM Features

- RFC1483 Encapsulation (IP, Bridging and encapsulated routing)
- PPP over ATM (LLC &VC multiplexing) (RFC2364)
- Classical IP (RFC1577)
- -Traffic shaping (UBR, CBR)
- OAM F4/F5 support
- PPP over Ethernet Client

Management Features

- Firmware upgrade via web based management
- -Web based management (configuration)
- Power indicators
- Event and history logging
- Network ping

Security Features

- Password protected configuration access
- User authentication (PAP/CHAP) with PPP
- Firewall NAT NAPT
- -VPN pass through (IPSec-ESP Tunnel mode,L2TP, PPTP)

LAN Features

- IEEE 802.1d (self-learning transparent Bridging)
- DHCP Server
- DNS Proxy
- Static Routing, RIPv1 and RIP

Radio Features

- -Wireless RF module Frequency Band
- 802.11g Radio: 2.4GHz
- 802.11b Radio: 2.4GHz
- Europe ETSI
- 2412~2472MHz (Ch1~Ch13)

ENGLISH 70

Modulation Type

– OFDM, CCK

Operating Channels IEEE 802.11b compliant:

– 13 channels (ETSI)

Operating Channels IEEE 802.11g compliant:

- 13 channels (Europe)

RF Output Power Modulation Rate-Output Power (dBm)

802.11b - 1Mbps (16 dBm) 802.11b - 2Mbps (16 dBm) 802.11b - 5.5Mbps (16 dBm) 802.11b - 11Mbps (16 dBm)

Modulation Rate-Output Power (dBm)

802.11g - 6Mbps (15 dBm) 802.11g - 9Mbps (15 dBm) 802.11g - 12Mbps (15 dBm) 802.11g - 18Mbps (15 dBm) 802.11g - 24Mbps (15 dBm) 802.11g - 36Mbps (15 dBm) 802.11g - 48Mbps (15 dBm) 802.11g - 54Mbps (15 dBm)

Sensitivity Modulation Rate-Receiver 2.412 ~ 2.484 HGz Sensitivity (dBm)

802.11b - 1Mbps - (90 dBm) 802.11b - 2Mbps - (88 dBm) 802.11b - 5.5Mbps - (85 dBm) 802.11b- 11Mbps - (84 dBm)

Modulation Rate-Receiver Sensitivity Typical (dBm)

802.11g - 6Mbps - (88 dBm) 802.11g - 9Mbps - (87 dBm) 802.11g - 12Mbps - (84 dBm) 802.11g - 18Mbps - (82 dBm) 802.11g - 24Mbps - (79 dBm) 802.11g - 36Mbps - (75 dBm) 802.11g - 48Mbps - (68 dBm) 802.11g - 54Mbps - (68 dBm)

Environmental

Complies with the following standards:

Temperature: IEC 68-2-14

0 to 50 degrees C (Standard Operating) -40 to 70 degree C (Non-operation)

Humidity 10% to 90% (Non-condensing)

Vibration IEC 68-2-36, IEC 68-2-6

Shock

IEC 68-2-29

Drop

IEC 68-2-32

Input Power

12 V 1 A

IEEE Standards

IEEE 802.3, 802.3u, 802.11g, 802.1d ITU G.dmt ITU G.Handshake ITU T.413 issue 2 - ADSL full rate

Standards Conformance Electromagnetic Compatibility

CE, ETSI, R&TTE, ETS 300 328, ETS 300 826

Safety

EN60950

Internet Standards

RFC 826 ARP RFC 791 IP RFC 792 ICMP RFC 768 UDP RFC 768 UDP RFC 783 TFTP RFC 1483 AAL5 Encapsulation RFC 1661 PPP RFC 1866 HTML RFC 2068 HTTP RFC 2364 PPP over ATM Hereby, Philips Consumer Electronics, BLC P&A CC, declares that this CPWBS154 is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

Hierbij verklaart, Philips Consumer Electronics, BLC P&A CC dat het toestel CPWBS154 in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.

Par la présente, Philips Consumer Electronics, BLC P&A CC, déclare que l'appareil CPWBS154 est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.

Hiermit erklärt Philips Consumer Electronics, BLC P&A CC die Übereinstimmung des Gerätes CPWBS154 mit den grundlegenden Anforderungen und den anderen relevanten Festlegungen der Richtlinie 1999/5/EG.

CPWBS154

В	V	DK 🗙	Е	X	GR 🗙	F	x
IRL	X	X	L	X	NL X	А	X
Ρ	X	su 🗙	S	X	UK 🗙	Ν	X
		CH X					





AQ95-56F-568KR (report No.)

EC DECLARATION OF CONFORMITY

We , Philips Consumer Electronics, P&A CC: Building SBP6 (manufacturer's name)

P.O.Box 80002, 5600 JB Eindhoven, The Nethelands (manufacturer's address)

declare under our responsibility that the electrical product:

Philips (name) CPWBS154/18 (type or model)

ADSL Wireless Base Station (product description)

to which this declaration relates is in conformity with the following standards:

EN 300 328 v1.4.1 (042003) EN 301 4891 v1.3.1 (09-2001) EN 301 48917 v1.2.1 (08-2002) EN610003-2:2000 EN610003-3:1995 +A1:2001 EN55022:1998 + A1:2000 + A2:2003 EN55024:1998 + A1:2001 + A2:2003 IEC 60950-1 :2001

(title and/or number and date of issue of the standards)

following the provisions of 1999/5/EC (R&TTE Directive) and is produced by a manufacturing organisation on ISO 9000 level.

Eindhoven, 01/10/2004

K.Rysman Approbation manager (signature, name and function)

(place, date)

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